STUDY PROJECT

CORPS COMMUNICATIONS FOR THE AIRLAND BATTLE

BY

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A transitional structure for the forward deployed Corps Signal Brigades, the 22nd in V Corps and the 93rd in VII Corps, is necessary both to improve communications support for the Corps in the near term and to facilitate the transition to the Mobile Subscriber Equipment (MSE) in the future. The concept developed during this study describes a proposed transitional organization which will improve the Brigade's ability to operate in the near term while supporting the transition to Mobile Subscriber Equipment in FY 89/90. Data used in the development of the concept resulted from personal interviews with Combat Development

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personnel at the U. S. Army Signal Center as well as with the forward deployed Signal Brigade Commanders and their staffs during on-site visits to their area of operations. The proposed change accommodates Airland Battle Doctrine, integrates new signal equipment resulting from force modernization between now and FY87, fixes existing deficiencies that unnecessarily complicates Brigade operations, and facilitates the fielding of the Mobile Subscriber Equipment. Although the main focus of the study effort was on the forward deployed Corps, there are areas that apply to III Corps and its European mission as well as the 3rd Signal Brigade as they prepare to transition to MSE in FY 88.

USAWC MILITARY STUDIES PROGRAM PAPER

CORPS COMMUNICATIONS FOR THE AIRLAND BATTLE

A GROUP STUDY PROJECT

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ABSTRACT

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PREFACE

This Group Study Project was produced under the supervision of the U.S. Army War College Center for Land Warfare. The Study and resulting document reflect the collective opinions of the four authors and is not intended to represent an official USAWC position. This document is based on independent student research and several workshops conducted by the four-man study group with members of the USAREUR, V and VII Corps staffs, and select communicators in the 22nd and 93rd Corps Signal Brigades. While this plan has not been formally staffed, it depicts operational and organizational concepts jointly agreed to by the incumbent brigade commanders and should be used as a basis for draft TOE development by the U. S. Army Signal Center and School.

EXECUTIVE SUMMARY

The purpose of this study is to define a transitional structure for the forward deployed Corps Signal Brigades--the 22nd in V corps and the 93rd in VII corps--that will improve communications support for the Corps in the near term, and facilitate the transition to the Mobile Subscriber Equipment(MSE).

The change is dictated by several factors: Airland Battle Doctrine, the infusion of new signal equipment as a result of force modernization between now and FY87, existing deficiencies that unnecessarily complicate the internal structure of the brigades, and the fielding of the Mobile Subscriber Equipment(MSE) during FY89 and FY90 in USAREUR. The focus is on the development of a war time organization.

The Signal Brigade plays a pivotal role in the Corps commander's ability to achieve synchronization of his combat power. One of the keys to success in Airland Battle doctrine is the ability to operate within the enemy's decision cycle. To accomplish this task tactical commanders must have the capability to quickly synchronize the Army's vertically organized (or stovepiped) functional systems,e.g., intelligence, fire support,

air defense, combat service support, etc. The Signal Brigade must provide the means to connect the "stovepipes" through reliable and responsive communications. In the words of General Depuy, "Fast sychronization comes from good, simple procedures backed by reliable communications."[1]

The force modernization actions between now and FY87 coupled with the equipment redistribution that resulted from the Battlefield Communications Review II(BCRII) held in November 1984 provide a unique opportunity to improve communications support to the Corps in the near time frame.

The existing deficiencies in the structure of the Brigades have a significant negative impact. The three Active Army Battalions that make up the Brigade are all different. Two of the three Battalions are organized completely along functional lines--one has all of the radios, the other all of the telephones and terminal equipment. This makes each Battalion dependent on the other for training and actual operations. This mutual dependency greatly reduces the flexibility of the Brigade to support the Corps and creates a training nightmare. From the Radio Battalion, B Company commander's perspective the situation is worse--his span of control in terms of area is the same as the Corps Commander's--signal teams from his company are located at the Corps ACR, the Divisions, and the adjacent Corps. Ensuring that they have food, fuel and the ability to provide reliable

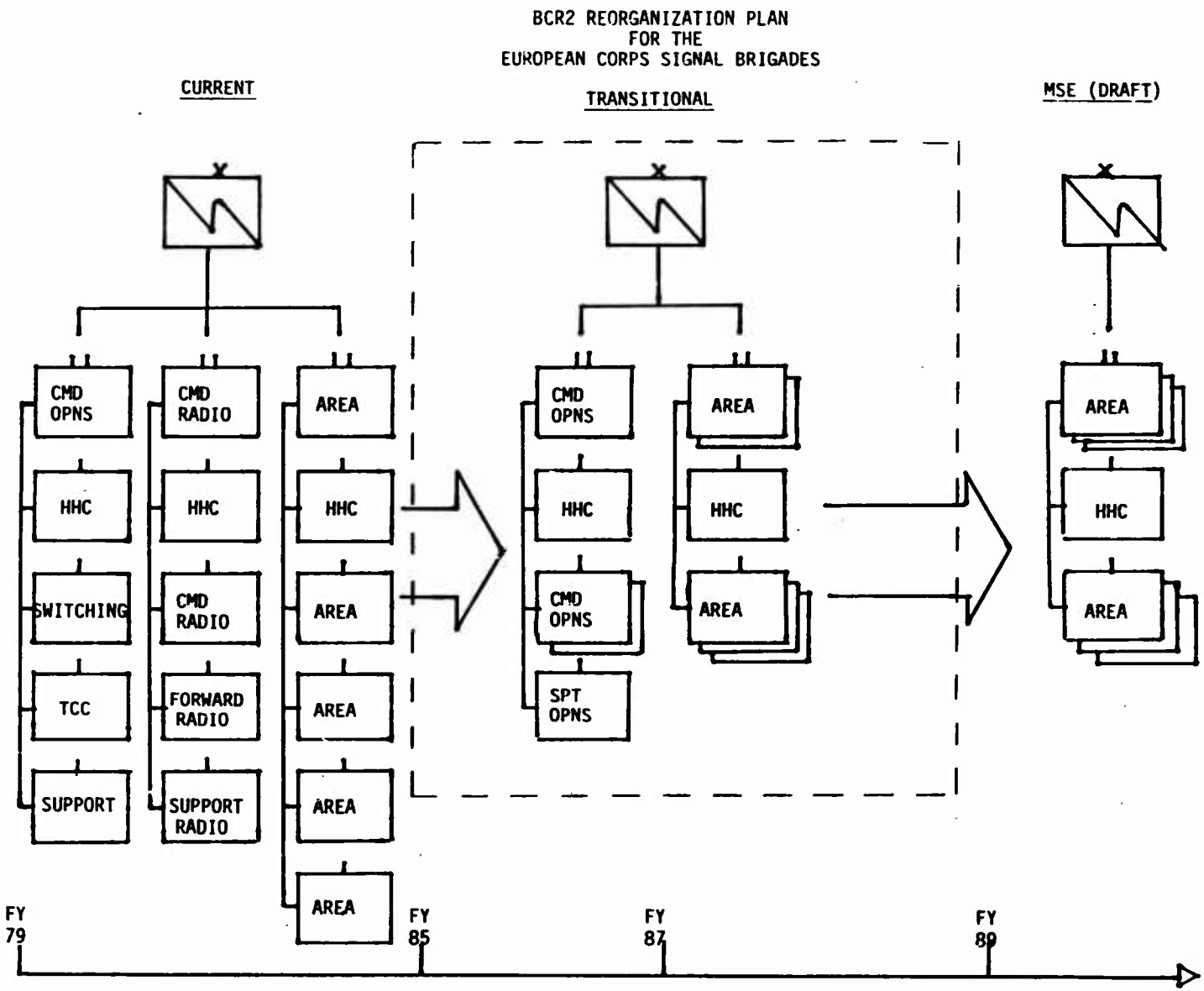
communications 24 hours-a-day becomes a near impossible task. This ad hoc nature of task organizing, often at the team level (three soldiers), for every mission makes cohesion an elusive goal.

The MSE fielding will alleviate the problems outlined above, but to ensure a successful transition it is necessary to put a better structure in place now. Under the current organization it would require a major standdown of the GDP mission for the Signal Brigade while either the Command Operations Battalion or the Radio Battalion is converted. Under the proposed organization this can be avoided.

Figure 1 depicts the current organization, the proposed transitional organization and the MSE structure. The main features of the transitional organization include two identical Area Signal Battalions and a Command Operations Battalion that is similar. Each Area Battalion has the assets to operate three Nodes and to provide extensions to Corps units operating within the area. The Command Operations Battalion supports the Corps Main CP, TAC CP, and Corps Rear.

The functional orientation of the current organization has been discarded in favor of a mission approach that gives each signal company commander the assets that he needs to do the job. This approach eliminates ad hoc task organizing and will support the development of standard procedures to simplify and improve communications installation.

Figure 1


BCR2 REORGANIZATION PLAN
FOR THE
EUROPEAN CORPS SIGNAL BRIGADES
CURRENT
TRANSITIONAL
MSE (DRAFT)
CMD OPNS
HHC
SWITCHING
TCC
SUPPORT
CMD RADIO
HHC
CMD RADIO
FORWARD RADIO
SUPPORT RADIO
AREA
HHC
AREA
AREA
AREA
AREA
CMD OPNS
HHC
CMD OPNS
SPT OPNS
AREA
HHC
AREA
AREA
HHC
AREA
FY 79
FY 85
FY 87
FY 89

The attached Organizational and Operational (O & O) Concept describes in detail the missions and functions of the proposed organization down to the platoon/section level. The two major factors driving the decisions on equipment and officer personnel distribution were first, does it improve the Brigades ability to operate in the near term, and second, does it support the transition to MSE in FY89/FY90. The enlisted personnel input will be developed by Ft Gordon based on the concept as presented in this study and on the appropriate manpower criteria. Working papers have been provided to Ft Gordon to insure that the September 1985 Management of Change (MOC) window is met.

The documentation will be developed in the Living TOE format. The objective TOE (OTOE) will be based on the MSE doctrinal path currently under development. Level 3 of the organization is designed to meet the USAREUR manpower ceilings.

The concept in its current state represents extensive coordination with V and VII Corps, the Signal School at Ft Gordon, and with III Corps at Ft Hood. Although the main focus of the study effort was on the forward deployed Corps, there are definitely areas that are applicable to III Corps and its European mission as well as to the 3rd Signal Brigade as they prepare to transition to MSE in FY88.

In coordination with Fort Gordon, dates have been established for the TRADOC Review Board and for a joint TRADOC, USAREUR,

Corps and HQ DA meeting to finalize changes to the Consolidated TOE Update(CTU) prior to close of the September MOC window (FY87 Force Structure Lockout date). The proposed EDATE for this organization is 1 October 1986.

ENDNOTES

1. General William E. DePuy, "The Case for Synchronization: Toward a Balanced Doctrine," Army, November 1984, pp. 18-25.

TABLE OF CONTENTS

ANNEXES

CHAPTER 1

INTRODUCTION

1.1 **PURPOSE**: To provide an operational and organization concept for transition of the Corps Signal Brigades and their battalions to the Mobile Subscriber Equipment (MSE) objective architecture programmed for 1989/1990.

1.2 **SCOPE**: This document only addresses the two Corps Signal Brigades in USAREUR; the 22nd Signal Brigade in support of V Corps and the 93rd Signal Brigade in support of VII Corps. Areas addressed include the need for a FY 87 transition architecture, the proposed operational and organizational concepts, the redistribution of equipment and personnel to support the concept and missions and capabilities of each organization down to platoon level.

1.3 **OBJECTIVES**: The objectives of this concept plan are to:

a. Serve as a basis for the development of a Table of Organization and Equipment (TOE) for the Corps Signal Brigade, TOE 11-402J590.

b. Serve as a basis for the development of a TOE for the Command Operations Battalion (Corps), TOE 11-405J590.

c. Serve as a basis for the development of a TOE for the Area Signal Battalion (Corps), TOE 11-416J590.

d. Support the combat development, materiel development, training development and equipment acquisition process.

e. Refine signal doctrine.

f. Provide guidance to logisticians, trainers and communications electronics managers on issues unique to the European Theater.

1.4 **NEED**. The current Airland Battle doctrine calls for increased dispersion and mobility to meet the demands of a deeper, expanded and integrated battlefield. Integral to this tactical doctrine is a flexible yet responsive communications network capable of providing high-speed data and information transfer over extended distances. The MSE Architecture (Area Grid System) coupled with Combat Net Radios (CNR) and Data Distribution Systems will provide this capability. However, until MSE is in place (1989/1990 in USAREUR), the corps signal brigades as currently organized and equipped cannot provide the responsiveness required to implement the Airland Battle doctrine.

During FY 85 the two European brigades will be issued automatic switches (AN/TTC-39's) which will significantly upgrade common user communications and enhance the decision making process of the tactical commander. They also serve as the basis for a new operational concept and transition organization. The transition organization will improve training and operational deficiencies currently experienced under the present organization but more importantly will pave the way for a smooth and quick transition to the objective MSE architecture in FY 89/90. **NOTE**: If the brigades stay as currently organized, final transition to MSE could result in an unacceptable stand down period which would have a serious impact on the Corps GDP mission.

1.5 **ASSUMPTIONS.**

a. There will be no increase in personnel beyond programmed USAREUR manpower ceilings for FY 87.

b. Both brigades will be authorized manning at the same levels; unique missions will require special augmentations.

c. There will be no increase in equipment assets beycnd those programmed through FY 86 and approved as a result of the Battlefield Communications Review (BCR II) in November 1984.

d. Equipment approved for distribution to the brigades (BCR II) will be fielded at or prior to 1 Oct 86.

1.6 **THREAT.** The threat to the Corps communications system is primarily encompassed within the Soviet doctrine of radio-electronics combat (REC), which consists of the total use of Soviet assets to disrupt and/or destroy US/NATO command, control, communications, computer and tactical information management (C^4IM) systems. Details of the threat, while fully considered, are purposely eliminated from this report due to security classification.

CHAPTER 2

CORPS COMMUNICATIONS

2.1 **GENERAL.**

a. The mission of the Corps Signal Brigade is to provide responsive and reliable communications for the Corps Commander and his staff to plan and execute the Airland Battle at the operational and tactical levels of engagement. By necessity, the system is complex as it must integrate secure voice, high speed data, facsimile, and numerous record traffic devices to transfer data and information necessary to coordinate the plan of maneuver, the plan of fire support and the plan of logistics support. The system must be flexible to support the pace of maneuver, it must have extensive range to support surveillance, intelligence and the three battle (rear, main, deep) concept and it must be survivable. Command Posts (CP's) must be able to displace rapidly without a loss of communications. The tremendous increase of data communications at the user level requires a system capable of providing high speed data transfer over a common user switched network on a priority basis. In addition, the system must be capable of interfacing with the Defense Communications System (DCS), allied services communications systems and indigenous communications networks.

b. Current equipment and personnel assets are austere, limiting the brigade's ability to provide communications to all of the units in the Corps area. As the Corps' mission changes, functional system priorities (Command and Control, Intelligence, Fire Support, etc.) must be adjusted to correspond to the new mission. Communications

assets must be allocated with planned redundancy for the highest priority systems; lower priority functional systems must operate to their maximum capabilities with reduced redundancy and in some cases must rely heavily on host nation support. The bottom line is that the proposed reorganization with no increase in equipment or personnel will not satisfy all essential communications/requirements. "Have Nots" will continue, particularly in the Combat Service Support area until fielding of MSE. However, there will be a marked improvemenet in the Signal Brigade's ability to provide reliable and responsive communications to high priority users.

2.2 **COMMUNICATIONS REQUIREMENTS.** The study group used the doctrinal requirements as specified in FC 100-15, Corps Operations dated March 1984 and draft FM 11-92, Combat Communications within the Corps dated 26 September 1984 as the basis for this concept plan.

2.3 **COMMUNICATIONS MEANS.** The corps communications system is comprised of three separate yet integrated subsystems; Combat Net Radios, a Data Distribution System and an Area Communications System. Since the E-Date of the proposed transition organization is set at 1 October 1986 future communications modernization programs such as SINCGARS (Single Channel Ground and Air Radio System), PLRS (Position Location Reporting System), JTIDS (Joint Tactical Integrated Data System) and tactical satellite terminals are not considered in this plan. This plan only considers the redistribution of current communications assets as distributed by BCR II. See ANNEX G. An explanation of how these major pieces of communications equipment will be employed is described in Chapter 3, Operational Concept.

CHAPTER 3

OPERATIONAL CONCEPT

3.1 GENERAL

a. The operational concept for the transitional reorganization of the European Corps Signal Brigades is based upon the objective architecture of the Mobile Subscriber Equipment (MSE) System which is programmed for V Corps in 1989 and VII Corps in 1990.

b. The MSE system will satisfy modern battlefield requirements by providing secure mobile communications, rapid displacement, system flexibility, reliability and survivability. The robustness of this new system is derived from its multi-channel grid communications network of like interlinked communications nodes which cover the battlefield from the Corps rear boundary to the rear boundary of the Division maneuver brigades. Corps and Division signal units each install their portion of the system. By employing modern technology of automatic voice and data switching at each node, the system provides subscriber access using a variety of user operated terminal devices (telephones, computers, facsimile, etc.) and the switch automatically routes the transmission through the network to the distant subscriber on a common user priority basis. It is quick, efficient and reliable rendering the concept of single-axis wideband transmission systems and dedicated user circuits obsolete.

c. While full implementation of the MSE architecture is not possible at this time, the automatic switches (AN/TYC 39 and AN/TTC 39) being distributed to the Corps Signal Brigades in FY 85 allow for a partial transition to the objective architecture. Therefore, this

chapter focuses on the operational concepts of the objective MSE system but within the limitations of communications equipment being distributed to the brigades during FY 85 and 86. The operational concepts of the proposed transition architecture will begin with an overview of the backbone communications system.

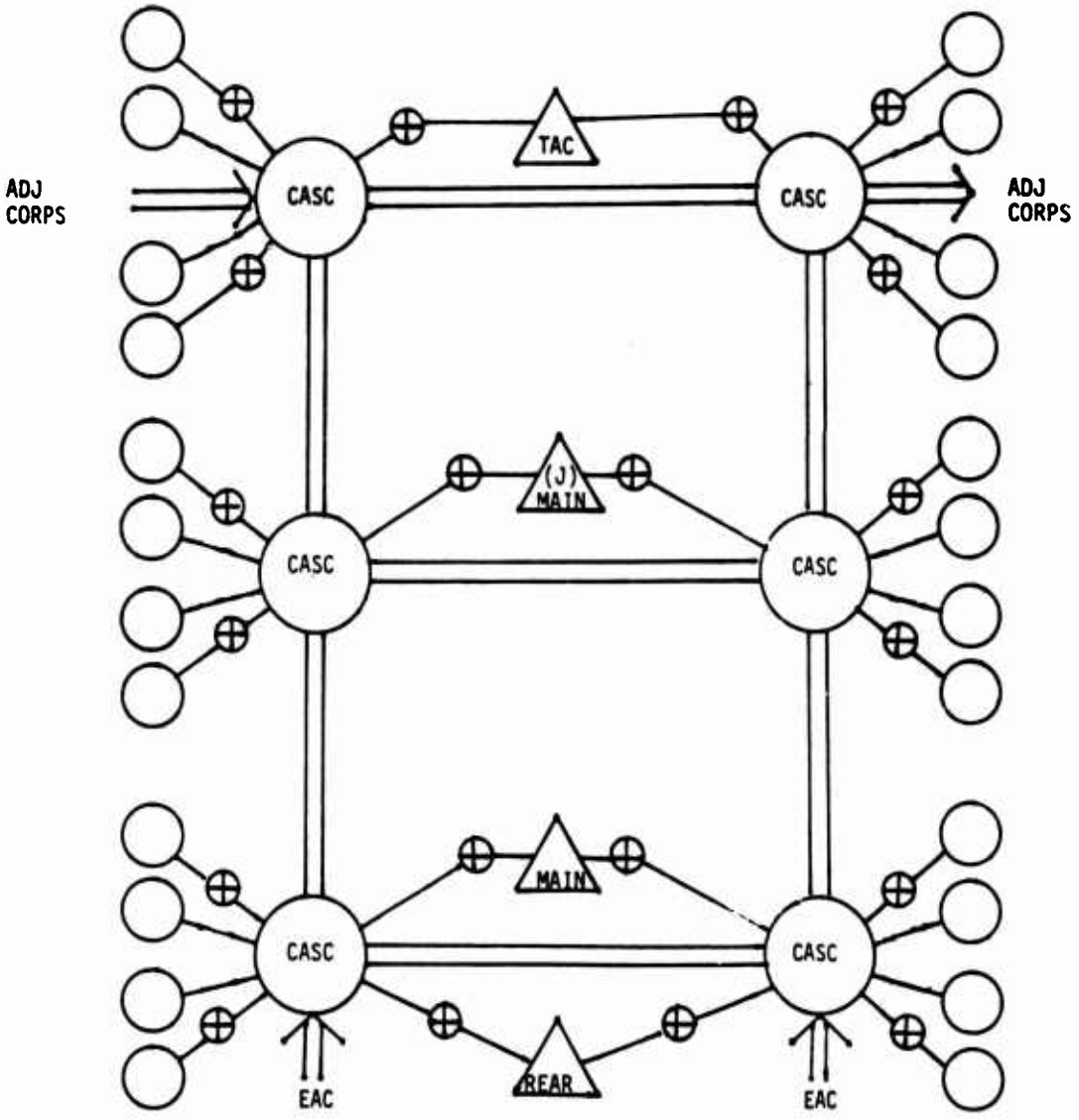
3.2 NETWORK OVERVIEW

a. The backbone of the Corps Area Communications System (See Figure 3-1) is six interlinked nodes referred to in this plan as Corps Area Signal Centers (CASC). A CASC is deployed by an Area Signal Company and has the capability of providing a full-range of doctrinal communications services to units/subscribers in the area. Normal separation between CASC is 25KM, but can be extended by relays or shortened depending on geography or user density considerations. Each CASC is normally connected to three other CASC (not less than two by a 24/48 channel wideband radio system forming a multi-path transmission network. It is this multi-path network that gives the transmission system reliability and sustainability.

b. In addition to the internodal transmission links, a CASC has the capability of extending up to four single axis 12/24 channel links to major subordinate commands (MSC). Two of the links can be extended beyond line of sight (LOS) using relays and depending upon mission priorities, a MSC such as Division Main CP can be given a jump capability.

c. Corps Command Posts (Main, Main Jump, TAC and Rear) are each connected into the backbone system by two 24-channel radio links, each to a different CASC. The TAC CP has a built-in jump capability to

CORPS NODAL COMMUNICATIONS NETWORK



(PROPOSED)

Figure 3-1

facilitate command control in a highly mobile situation; Corps Rear CP has the capability to provide dedicated links for designated headquarters conducting RACO missions.

d. The heart of the backbone system is the AN/TTC 39, Automatic Voice Switch, located at each CASC. Processor controlled, the switch flood searches the network until the distant subscriber is located, selects the shortest available route, and then provides connectivity on a priority basis. The switch operates in both the analog and digital mode, providing the user a multitude of terminal equipment options and services to include conferencing (preplanned and progressive) precedence and preemption, security, and a discrete numbering system regardless of where the subscriber is in the network.

e. Each Battalion has a AN/TYC-39 message switch (3 per Corps Brigade) that can be prioritized to the CASC with heavy message traffic loads.

3.3 NETWORK INTERFACES

The Corps Area Communications System is interoperable with tactical and commercial communications systems in Europe. The flexibility of the TRITAC switches allows interface with Echelon Above Corps (EAC) systems for AUTOVON and AUTODIN service. They provide connectivity with NATO military and host nation commercial systems and a multitude of tactical functional systems in the analog and digital modes.

3.4 SURVIVABILITY

The system derives its survivability through a multi-channel

grid network of multiple transmission paths. If one of the CASC is destroyed by hostile action or is out of service for technical reasons, the switches will automatically route communications around the inactive CASC. Survivability of command posts is also enhanced by a reduction in electronic signatures. Electronically, all signal nodes and headquarters will look similar and the echelons of Corps Headquarters will be extremely difficult to detect by electronic intercept.

3.5 CASC/DISPLACEMENT

a. CASC displacement must be accomplished much like an Artillery Battalion or a Command Post, depending upon the flow of battle. On a dynamic battlefield, frequent displacement of CASC may be required. Careful planning and execution is required in order to minimize disruption of subscriber services. The most likely cause of CASC displacement is a shift in the flow of battle. Ideally, CASC displacement should occur when all or most of its subscribers are also displacing. The ideal will seldom occur. There will be some CP's whose mission does not require their concurrent displacement. CASC displacement will generally follow these steps.

(1) The first step is to minimize disruption of services by moving only when the least number of subscribers will be affected. Those remaining behind must be reaffiliated or moved to another CASC with minimum disruption. This can be accomplished by leaving one transmission system in place and connecting remaining subscribers as long local off another CASC. **NOTE**: While this is a solution, it may not be possible due to limited communications equipment. In that case, subscribers would be directed to move to the vicinity of another

CASC.

(2) Having satisfied subscriber requirements, break down the remaining intra and inter CASC links and disestablish the CASC.

(3) Move and reestablish the CASC.

b. There may be times when all six CASC will not be deployed leaving the brigade a reserve capability to support changing requirements resulting from the dynamics of the battlefield.

3.6 TACTICAL CP DISPLACEMENT

a. The proposed architecture provides the capability to install Corps Main, Corps Jump, Corps Rear and Corps TAC as independent Command Posts. Corps Main has its displacement capability built in with Main Jump. When Main Jump becomes active it becomes Main and the old Main CP is dismantled and displaced to a new location and becomes Main Jump. Corps Rear and Corps TAC has no true displacement capability and must be phased to a new location in the same manner a CASC is displaced.

b. Corps provided systems to Division CP's and Independent Brigades will normally have a jump capability. Timely notification to the Forward Support Platoon leader servicing the CP will allow for quick connectivity of the jump CP into a CASC with minimal loss of service. MSC's not having a jump capability must provide timely coordination with the servicing CASC to minimize degradation of service.

CHAPTER 4

ORGANIZATIONAL CONCEPT

4.1 **GENERAL.** The organizational structure, mission and capabilities of the HHC, Corps Signal Brigade, the Command Operations Battalion and the Area Signal Battalion are at **Annexes A** through **F** respectively.

4.2 **DISTRIBUTION OF EQUIPMENT.** Selected major items of equipment are at **Annex G.**

4.3 **DISTRIBUTION OF PERSONNEL.** A recommended officer distribution for the brigade is at **Annex H.** Enlisted personnel will be distributed by the U. S. Army Signal Center based on the recommended equipment distribution at **Annex G.**

ANNEX A

HEADQUARTERS AND HEADQUARTERS COMPANY

CORPS SIGNAL BRIGADE

(Organization, Mission and Capabilities)

HHC, CORPS SIGNAL BRIGADE (PROPOSED)
TOE 11-402J590

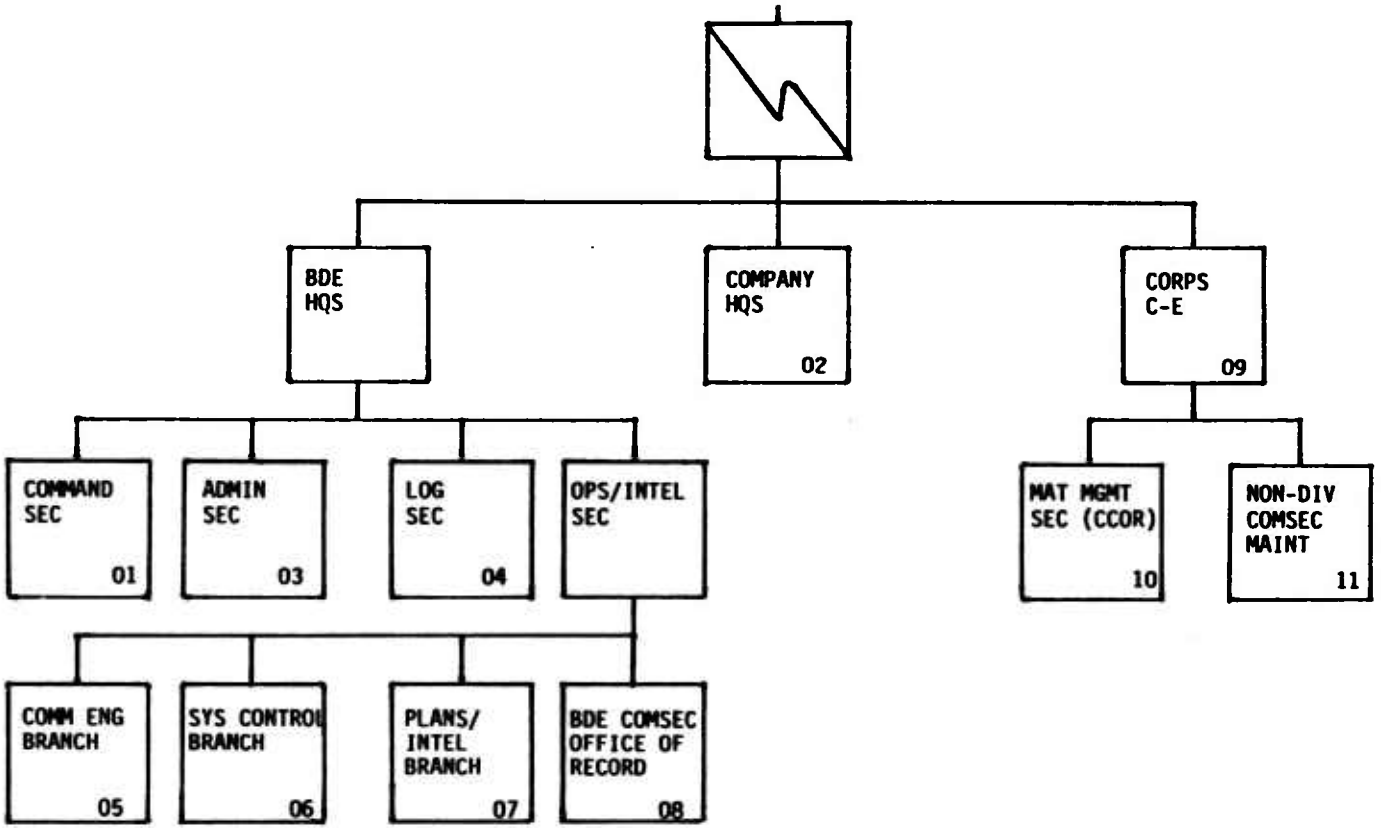


Figure A-1

HEADQUARTERS AND HEADQUARTERS COMPANY

CORPS SIGNAL BRIGADE

SECTION I

ORGANIZATION

1. MISSION:

a. To provide command and control of assigned and attached units.

b. Supervise the installation, operation and maintenance of the corps communications system, excluding the division communications system.

c. Provide facilities with which the Brigade Commander controls the brigade.

2. ASSIGNMENT: Organic to the Corps Signal Brigade.

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Command and control, staff planning, and supervision of a corps signal brigade.

(2) Planning, engineering, and control of the corps communications system.

(3) Technical assistance to the Corps C-E officer.

(4) Coordination of the training, administrative and logistical support to assigned and attached units.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in coordinated defense of unit's area or perimeter.

d. This unit is dependant upon:

(1) The Corps Aviation Brigade for rotory wing

aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, aerial messenger as required and CP/Relay site reconnaissance as required.

(2) The Command Operations Battalion for food service support and intermediate forward maintenance of C-E and COMSEC equipment.

(3) Elements of the Corps Support Command for maintenance contact teams, intermediate maintenance of automotive, air conditioner and power generator equipment.

(4) Other command units, as needed for personnel, finance, logistical, medical support, NBC decontamination, photographic, and food service support.

4. BASIS OF ALLOCATION: One per Corps Signal Brigade.

5. CATEGORY: This unit is designated a Category II (ALO 4) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications

FM 24-17 Tactical Telecommunications Center Operation

FM 24-18 Field Radio Techniques

FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet, Headquarters and Headquarters Company, Corps Signal Brigade. (undated)

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To direct and coordinate operations of the Corps Signal Brigade.

b. Provide facilities with which the Brigade Commander controls the brigade.

c. Supervise the installation, operation, and maintenance of the corps communications system, excluding the division communications systems.

d. Operate a communications system planning element (CSPE) and communications systems control element (CSCE), to perform all C-E management functions for the signal brigade.

3. ASSIGNMENT: One Headquarters and Headquarters Company assigned to each Corps Signal Brigade.

4. EMPLOYMENT:

a. The Company Headquarters will be located in the vicinity of the Corps Signal Brigade Headquarters.

b. The Corps Signal Brigade generally co-locates with elements of the Corps Headquarters and the Headquarters, Command Operations Battalion. However, consideration must be given to the possibility of dispersing the command and control elements of the signal brigade, just as there has been tests to determine the feasibility of dispersing the

elements of the Corps Headquarters. The Corps Signal Brigade could be adequately supported by a Corps Area Signal Company, located in the vicinity of the Corps Main CP, thus reducing C-E requirements at the Corps Main CP.

c. The Headquarters and Headquarters Company, Corps Signal Brigade, consists of a Brigade Headquarters, a Company Headquarters (02), and a Corps C-E Staff Section (09).

d. The Brigade Headquarters is organized along traditional lines providing personnel and facilities for command and control of brigade operations and coordination of the brigade staff. The brigade headquarters consists of a Command Section (01), an Administrative Section (03), Logistics Section (04), and an Operations and Intelligence Section.

(1) The Brigade Commander (COL,25A), assisted by the Deputy Brigade Commander (LTC,25A), and the Command Sergeant Major (E9,00Z), provides command and control of the brigade operations. The Chaplain (LTC,56A) conducts religeous services and provides counselling and guidance to service members and their families. The Staff Judge Advocate (LTC,55A), provides legal assistance and advice to the Brigade Commander. The S-3 Officer (LTC,25A), is the

supervisor of the Operations and Intelligence Section, and the S-2 Officer (MAJ,35A), assists the S-3. The S-1 Officer (LTC,41A25), is responsible for the Administrative Section, and the S-4 Officer (LTC,72A) heads the Logistics Section.

(2) The Brigade Administrative Section (03). This section provides administrative and personnel actions for the entire brigade. This section is responsible for the brigade publications library, runs the brigade distribution center, and advises the commander on all issues pertaining to administration and personnel. Provides staff assistance to the subordinate units. The S-1 Officer is assisted by the Personnel Staff Officer (MAJ,41A), and an Adminstrative Officer (CPT,42A).

(3) The Operations and Intelligence Section consists of the communications engineering branch (05), systems control branch (06), the plans and intelligence branch (07), and the Brigade COMSEC Office of Record (08). This section provides all C-E Management System (C-EMS) functions for the signal brigade.

(a) The Communications Engineering Branch, (05), headed by the Systems Engineering Officer (MAJ,27B), is the communications system planning element (CSPE) for the brigade and operates from an AN/MSC-25, Operations Central

Office. It conducts detailed systems engineering studies and developes plans for establishing communications systems. Some of the specific functions performed by this branch include: determining the technical characteristics of circuits; determining equipment suitability, adaptability, and compatibility with existing military indigenous communications systems; ascertaining the capabilities and limitations of equipment and determining the types of installations and employment required to provide quality transmission over installed circuits and systems; and, the handling of frequency requests and associated records for the brigade units. Integrates allied and indigenous communications into the corps communications system. Traffic status reports are analyzed in a continuing effort to optimize system capabilities for handling traffic while avoiding communications traffic congestion, particularly in areas where there is a shifting population of users. The results of these analyses are used in determining the need for the addition or deletion of circuits and facilities. The branch also maintains direct coordination with the communications system control element (CSCE) in the systems control branch to keep it informed of current and future needs for rerouting or reconstituting circuits and facilities throughout the corps communications system. Assisting the Systems Engineering Officer are:

The Traffic Engineering Officer (MAJ,27B). This officer is responsible for analyzing all traffic status reports and studies in an effort to optimize system capabilities. The Traffic Engineering Officer is assisted by the Assistant Traffic Engineering Officer (CPT,27B).

The Software (ADPS) Engineering Officer (CPT,25B), Telecomunications Center Officer (CPT,25A), Communications Systems Officer (CPT,27A), and the Telephone/Digital Officer (CPT,25A), assists the branch chief in engineering communications systems in their respective fields. This includes determining the : technical characteristics of circuits; equipment suitability, adaptability, and compatibility with existing military and indigenous communications systems; capabilities and limitations of equipment; and the overall quality of transmission facilities.

The Radio Frequency Engineering Officer (CPT,25A), evaluates radio propagation data to determine allocation of radio frequencies. He allocates frequencies to units in the brigade, coordinates radio frequency requirements, maintains records, prepares reports, and initiates correspondence to corps headquarters on all frequency matters. He is responsible for engineering radio communications systems.

The Signal Brigade COMSEC Technician (WO,290AL), is responsible for the Brigade COMSEC Office of Record, providing for the control and distribution of internal brigade and subordinate battalion COMSEC material. Serves as the COMSEC technical advisor to the signal brigade commander.

(b) The Systems Control Branch (06) is the senior communications systems control element (CSCE) in the brigade, providing effective operational management and responsive systems control. This section operates from an AN/MSC-25, Operations Central Office. The main objective of the CSCE is to optimize the performance of the deployed network in a constantly changing network configuration. It will also perform near real-time control of communications systems and subordinate battalion CSCE's. A data base will be established and maintained to assist in near real-time control of communications systems and to assist the CSPE in systems planning and engineering. Responsibilities of the branch include: allocating circuits based on established priorities; insuring availability of circuit routes and alternate routes by maintaining centralized control of circuits; insuring efficient service by directing the subordinate system control sections of the assigned units to reroute and rearrange circuits to relieve traffic congestion throughout the entire corps communications system. The

branch prepares and distributes priority lists and detailed emergency schedules for restoration of circuits in the event of the disruption of communications or damage to any part of the system.

Automatic switch network management is accomplished as a function of SYSCON. Personnel needed for sustained operation are: The software (ADPS) engineering officer and the assistant traffic engineering officer, communications engineering branch; the software (ADPS) plans officer, plans and intelligence branch; and the software (ADPS) plans officer, systems control branch. The systems control branch also prepares and maintains a systems diagram, a signal subscriber list by geographical locations, a traffic backlog status, a circuit routing diagram, accumulative circuit outage records, a priority designator list, the current status of communications, and a journal of daily activities. The branch is staffed with the following officers:

Operations Staff Officers (MAJ,25A). Two officers assist the S-3 in preparing an estimate of the C-E situation in the corps. The senior officer also serves as branch chief.

Systems Control (SYSCON) Officer (MAJ,25A), responsible for coordinationg with all brigade CSCE's to

insure quality, adequacy and availability of circuits.

The Assistant SYSCON Officer (CPT,25A), Software (ADPS) Engineering Officer (CPT,25B), two Radio Relay Officers (CPT,25A) and two Telephone/Digital Officers (CPT,25A) perform day-to-day, shift-by-shift CSCE functions required for coordinating, directing, and establishing circuits in the corps communications system.

(c) The Plans and Intelligence Branch (07) is responsible for planning, coordinating, and supervising the plans and intelligence requirments of the brigade. Officers assigned to this branch are as follows:

Plans Officer (MAJ,25A). Responsible for overall operation of the branch. Reports directly to the S-3.

Assistant Plans Officer (CPT,25A) and Software (ADPS) Plans Officer (CPT,25B) assist the branch chief in planning, coordinating and staff supervision of the plans, requirements, and training programs of the brigade.

The Chemical Officer (MAJ,74A) develops the training plan for the brigade's defensive chemical operations, continually accessing chemical operations and

training situations.

(4) The Logistics Section (04) is headed by the S-4 Officer. This section provides staff supervision for all logistics related actions. Develops logistic plans,and supervises the brigade logistics related budgeting and execution function. Advises the brigade commander on all matters pertaining to logistics and maintenance. The S-4 is assisted by the following officers:

The C-E Material Manager (MAJ,72A), Maintenance Staff Officer (CPT,91A), Staff Maintenance Technician (WO,630E), C-E Repair Technician (WO,286A), Food Service Technician (WO,041A), Unit Supply Technician (WO,761A), and Engineer Repair Technician (WO,621A).

e. Company Headquarters (02) is organized along conventional lines. The Commander (Cpt,25A),assisted by the First Sergeant (E-8,31Z), provide command, control and coordination of company operations. Personnel and equipment are provided for supply, administration, POL resupply, wheel vehicle recovery, organizational level maintenance of organic arms, power generators, air conditioning equipment, and vehicles. Formal company administration is provided by the Brigade Personnel Administrative Center (PAC).

f. Corps Communications-Electronics Section (09). The primary mission of this section is to perform the C-E management functions necessary to insure that adequate communications are provided to the corps commander for command and control of his forces. Located in the CTOC area, the corps C-E staff functions are primarily of a management nature, such as the assignment of blocks of radio frequencies, evaluation of systems performance, and network layout. These are in contrast to the operational types of functions that the brigade operations and intelligence section performs, such as system engineering, and restoration of services. the C-E section advises the corps commander, his staff, and his subordinate commanders on command-wide C-E matters and prepares the C-E estimates, plans, and orders for the guidance and direction of subordinate commands and signal units. The section also exercises some technical supervision of signal activities within the command ot insure that communications operations are in accordance with established standards and procedures, and that communications resources and support are adequate to meet requirements. Under current doctrine, the C-E staff manages all operational and contingency COMSEC matters concerning security, and COMSEC operational plans and policy for the corps. The COMSEC Staff Technician serves as the principal staff advisor and planner to the corps commander for COMSEC operations in the corps. Plans communications

cryptonetting within the corps, IAW current COMSEC netting doctrine and equipment availability. Ensures that COMSEC assets and systems are properly employed, fielded and deployed to meet corps-wide mission requirements. Implements COMSEC policy within the corps. Establishes and coordinates priorities for issue of COMSEC material and repair parts with the corps G3 and corps COMSEC Office of Record (CCOR)(10). Provides staff supervision over the Corps COMSEC Non-divisional Maintenance Facility (11), whose mission is to provide intermediate forward COMSEC maintenance for all non-divisional units, other than the corps signal brigade and certain Military Intelligence units having organic COMSEC maintenance assets. Establishes staff supervision over the CCOR whose responsibilities are as follows:

(1) Maintains visibity over Corps COMSEC assets through reporting channels from Corps COMSEC accounts and records to the Theater COMSEC Office of Record (TCOR) as required.

(2) Establishes priorities for issue of COMSEC material.

(3) Receives, processes and controls all accounting transactions which affect COMSEC accounting records within

the corps.

(4) During crisis/contingency operations, serves as a holding area for bulk, sealed Armed Forces Courier System (ARFCOS) shipments destined for COMSEC accounts operated by corps subordinate units.

(5) Provides consolidated Semi-Annual Inventory Reports (SAIR), as required.

To support the C-E Officer's advisory role, his staff monitors the status of organic communications resources in non-signal units through command personnel and equipment reports. The performance of communications-electronics management system functions within the command are also monitored by the C-E officer and his staff by means of orders, reports, records, and staff visits. The Corps C-E section is under the direct supervision of the assistant corps C-E officer (LTC,25A). The duties of the personnel assisting him are:

(1) Operations/Plans Officer (LTC,25A). Plans for and supervises communications support to the corps. Prepares plans for incorporation into corps plans and orders. Coordinates with other headquarters staff sections and signal brigade staff sections regarding communications

requirements.

(2) C-E Staff Officer (MAJ,25A). Makes recommendations for procurment, employment, and allocation of signal soldiers to support the command. Determines requirement for C-E training of non-signal units.

(3) Electronic Maintenance Staff Officer (MAJ,25A72). Prepares and coordinates plans and policies in maintenance of communications facilities. Makes recommendations for procurment, employment, and allocation of C-E supplies and equipment for non-signal units.

(4) Radio Frequency Engineering Officer (MAJ,25A). Coordinates frequency allocation, assignment, and use; reports and processes interface problems. Prepares CEOI items pertaining to frequency management.

(5) Telephone/Digital Officer (MAJ,25A). Exercises staff supervision over wire operations and construction activities in the corps. Prepares CEOI items pertaining to telephone directory designation, teletypewriter call sogns, systems, and circuit numbering schemes. Also prepares portions of C-E plans and orders.

(6) Telecommunications Center Officer (CPT,25A).

Exercises staff supervision over telecommunications center activities. Publishes the corps CEOI items pertaining to message service, authentication tables, tactical teletypewriter signs, etc. Prepares portions of C-E plans and orders.

(7) Radio Systems Officer (CPT,25A). Exercises staff supervision over radio communications activities. Prepares CEOI items pertaining to radio communications. Coordinates continually with the radio frequency officer. Prepares C-E plans and orders.

(8) CCOR Technician (WO,290AL). Supervises the Corps COMSEC Office of Record (CCOR)(10), providing centralized accountability reporting for COMSEC items in the corps. Receives distribution of COMSEC material from the Armed Forces Courier Service (ARFCOS) and provides drop-off/ pick-up point for all corps COMSEC accounts.

(9) C-E COMSEC Staff Technician (WO,290AO). Serves as a cryptographic staff officer, assisting the C-E officer and advising him on cryptographic matters. Conducts inspections of corps cryptographic facilities.

(10) Corps COMSEC Maintenance Technician (WO,290AL). Officer-in-charge of the corps non-divisional COMSEC

maintenance facility (11), providing intermediate forward maintenance of COMSEC equipment for all corps non-divisional units, excluding the corps signal brigade and certain MI units having organic COMSEC maintenance capability. Maintains COMSEC repair parts, ASL/PLL and DX in support of Intermediate Forward Repair Facility (IMF) operations.

ANNEX B

HEADQUARTERS AND HEADQUARTERS COMPANY

COMMAND OPERATIONS BATTALION

(Crganization, Mission and Capabilities)

HHC, COMMAND OPERATIONS BATTALION (PROPOSED)
TOE 11-406J590

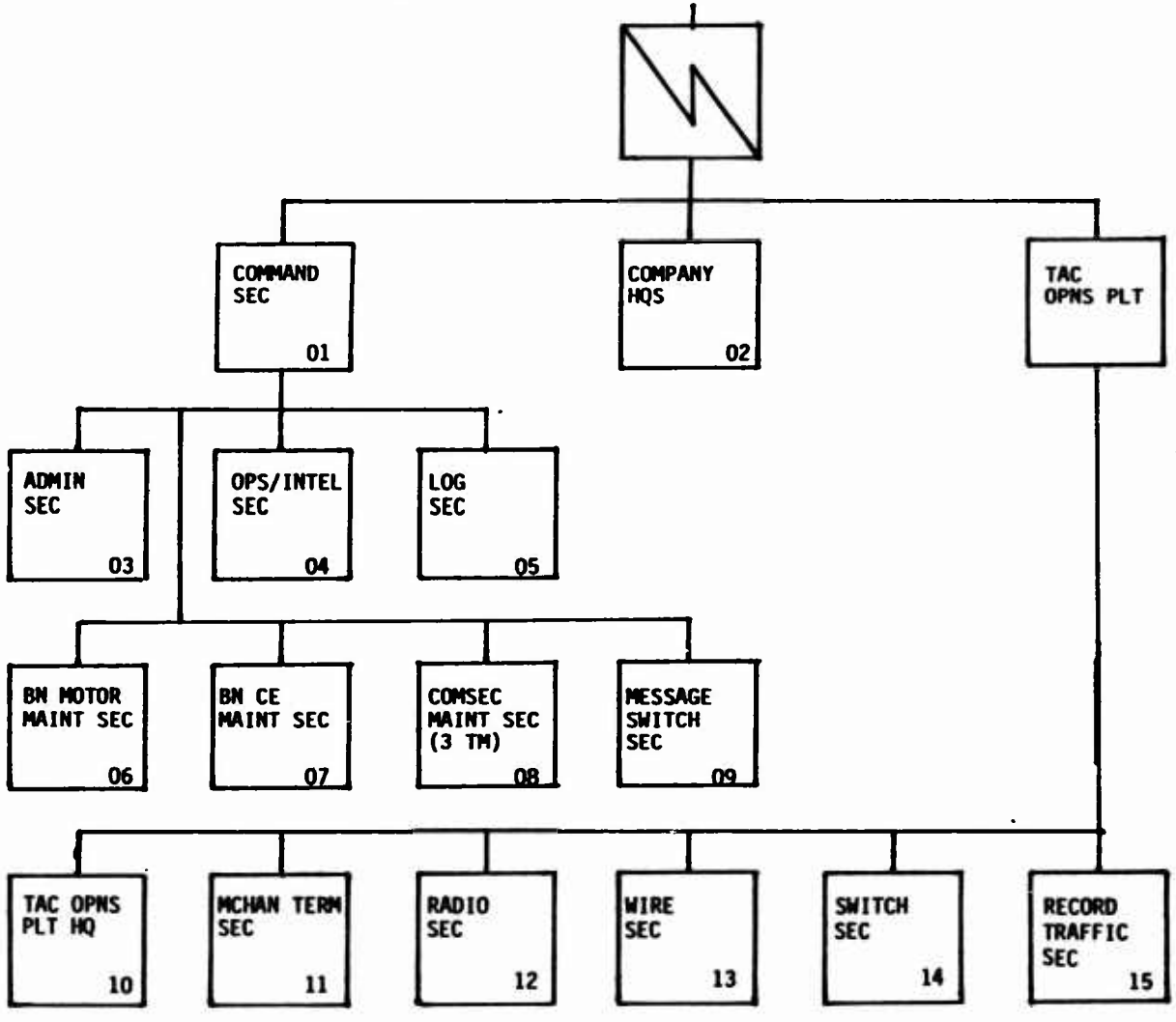


Figure B-1

HEADQUARTERS AND HEADQUARTERS COMPANY

CORPS COMMAND OPERATIONS BATTALION

SECTION I

ORGANIZATION

1. MISSION:

a. To direct and coordinate operations of the Corps Command Operations Battalion.

b. Provide facilities with which the Battalion Commander controls the battalion

c. Provide signal communications for the Corps TAC CP

2. ASSIGNMENT: Organic to the Corps Command Operations Battalion, TOE 11-405J590.

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Command and control, staff planning, and supervision of the battalion.

(2) Religous services for the battalion.

(3) Battalion level administrative and supply services.

(4) Organizational maintenance of company vehicles, generators, C-E equipment ,and arms.

(5) Intermediate forward level COMSEC and C-E maintenance for the Battalion.

(6) Installation, operation, and maintenance of communications facilities at the Corps TAC CP.

(a) A 60 line telephone central office, and complete displacement capability .

(b) A secure teletypewriter terminal facility providing termination for three full-duplex teletypewriter

circuits.

(c) Limited telecommunications center services which include message handling and motor messenger service.

(d) Installation of local telephones, wire and communications cable.

(e) Installation of two multichannel systems to adjacent communications nodes, providing secure telephone, record traffic, facsimile and data channels. Unit has the capability to install one additional multichannel system. This provides capability to install advance communications during displacement of the TAC CP.

(f) Capability to install two multichannel radio relays.

(g) A RATT station in the corps command net, and facilities for net radio interface.

(6) Unit administration and supply.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in

coordinated defense of unit's area or perimeter.

d. This unit is dependant upon:

(1) The Corps Aviation Brigade for rotory wing aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, aerial messenger as required and CP/Relay site reconnaissance as required.

(2) Either of the Main Operations Companies for food service support.

(3) Appropiate units serving the area for:

(a) Personnel, medical, and finance services.

(b) Supplemental transportation.

(4) Elements of the Corps Support Command for maintenance contact teams, intermediate maintenance of automotive, air conditioner and power generator equipment.

(5) Other command units, as needed for personnel,

finance, logistical, medical support, NBC decontamination, photographic, and food service support.

4. BASIS OF ALLOCATION: One per Corps Command Operations Battalion.

5. CATEGORY: This unit is designated a Category II (ALO 3) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications

FM 24-17 Tactical Telecommunications Center Operation

FM 24-18 Field Radio Techniques

FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet, Headquarters and Headquarters Company, Command Operations Battalion. undated.

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To direct and coordinate operations of the Corps Command Operations Battalion.

b. Provide facilities with which the Battalion Commander controls the battalion.

c. Provide signal communications for the Corps TAC CP consisting of:

(1) a 60 line telephone central office, with redundant equipment and manning to provide displacement capability.

(2) A secure teletypewriter terminal facility,

providing termination for three full-duplex teletypewriter circuits.

(3) Limited telecommunications center services, which include message handling and motor messenger service.

(4) Installation of local telephones, wire, and communications cable.

(5) Installation of two multichannel systems to adjacent communications nodes, providing secure telephone, record traffic, facsimile and data channels. The capability to install and operate one additional system to support displacement of the TAC CP.

(6) Capability of installing and operating two multichannel radio relays.

(7) Operate a RATT station in the corps command net and Net Radio Interface facilities.

3. ASSIGNMENT: One Headquarters and Headquarters Company assigned to each Corps Command Operations Battalion.

4. EMPLOYMENT:

a. The Company Headquarters will be located in the vicinity of the Command Operations Battalion Headquarters.

b. The Tactical Operations Platoon will locate adjacent to the Corps TAC CP providing control and management of the communications provided the TAC CP; facilities for receiving and transmitting record traffic; switchboard for local subscriber and trunk circuits; a wire/cable installation team to install telephone,interconnect the communications assemblages and provide access points for local subscriber circuits; two line-of sight multichannel systems; RATT facilities to enter the corps command net.

5. METHODS OF OPERATION:

a. The Headquarters and Headquarters Company, Command Operations Battalion, consists of a Command Section (01), a Company Headquarters (02), and a Tactical Operations Platoon.

b. The Battalion Command Section (01) is organized along traditional lines providing personnel and facilities for command and control of the battalion operations and coordination of the battalion staff. The battalion staff consists of an Admin Section (03), Operations and Intelligence Section (04), Logistics Section (05), Battalion

Motor Maintenance Section (06), COMSEC Maintenance Section (08), and a Message Switch Section (09).

(1) The Battalion Commander (LTC,25A), assisted by the Executive Officer (Maj,25A), and the Command Sergeant Major (E9,00Z), provide the command and control of the battalion operations. The Chaplain conducts religous services and provides counselling and guidance to servicemembers and their families.

(2) The Battalion Administrative Section (03) is headed by the S-1 officer (Cpt,25A41). This section provides administrative and personnel actions for the entire battalion. Operates the Personnel Administrative Center (PAC) and is responsible for the battalion publications library and runs the distribution center for the battalion. Advises the commander on all issues pertaining to administration and personnel. Provides staff assistance to the subordinate units.

(3) The Operations and Intelligence Section (04) provides all C-E Management Systems functions, prepares plans and operations orders, coordinates with the other signal battalions operations and the Signal Brigade Operations Section. The section operates a Communications System Control Element (CSCE), directing and controlling

organic C-E systems, and provides supervision for each of the subordinate Communications Nodal Control Elements (CNCE). The Section is headed by the S3 (Maj,25A), with assistance from the SYSCON Officer (Cpt,25A), and the Tel/Dig Communications Officer(Lt,25B). He also serves as the S-2 Officer. The Telecommunications Technician (TCCT) (WO,290AO), develops TCC plans and advises the S-3 in all matters pertaining to Telecommunications Center operations and training

(4) The Logistics Section (05) is headed by the S-4 Officer (Cpt,72A) assisted by the Property Book Officer (WO,761AO). This section provides staff supervision for all logistics related actions. Develops logistic plans, supervises the battalion budgeting and execution function. Keeps the battalion property record and receives, issues, and makes turn-ins on all expendable and non-expendable equipment and supplies.

(5) The Battalion Maintenance Officer (Cpt,25A72) provides staff supervision and command guidance in all areas of maintenance of organic equipment. He is assisted by a Motor/Power Technician (WO,630AO), who supervises the Battalion Motor Maintenance section (06),the Communications-Electronics Technician (WO,286AO), who supervises the Battalion Electronics Maintenance Section

organic C-E systems, and provides supervision for each of the subordinate Communications Nodal Control Elements (CNCE). The Section is headed by the S3 (Maj,25A), with assistance from the SYSCON Officer (Cpt,25A), and the Tel/Dig Communications Officer (Lt,25B). He also serves as the S-2 Officer. The Telecommunications Technician (TCCT) (WO,290AO), develops TCC plans and advises the S-3 in all matters pertaining to Telecommunications Center operations and training

(4) The Logistics Section (05) is headed by the S-4 Officer (Cpt,72A) assisted by the Property Book Officer (WO,761AO). This section provides staff supervision for all logistics related actions. Develops logistic plans, supervises the battalion budgeting and execution function. Keeps the battalion property record and receives, issues, and makes turn-ins on all expendable and non-expendable equipment and supplies.

(5) The Battalion Maintenance Officer (Cpt,25A72) provides staff supervision and command guidance in all areas of maintenance of organic equipment. He is assisted by a Motor/Power Technician (WO,630AO), who supervises the Battalion Motor Maintenance section (06),the Communications-Electronics Technician (WO,286AO), who supervises the Battalion Electronics Maintenance Section

(07), the COMSEC Equipment Repair Technician (WO,290AV), who sepervises the COMSEC Maintenance Section. Also included in this section is the AN/TYC-39 Automatic Message Switch. This equipment is authorized a Warrent Officer, 290AO as OIC. For operations this equipment will be attached to one of the operating companies of the Command Operations Battalion or one of the Corps Area Signal Battalions.

c. Company Headquarters (02) is organized along conventional lines. It contains personnel and facilities for command and control of the company mission. Personnel and equipment are provided for supply, administration, POL resupply, wheel vehicle recovery, organizational level maintenance of organic arms, power generators, air conditioning equipment, vehicles and limited C-E equipment. Formal company administration is provided by the Battalion Personnel Administrative Center (PAC).

(1) The Commander (Cpt,25A),assisted by the First Sergeant (E-8,31Z), provide command, control and coordination of company operations.

(2) The Tactical Operations Platoon Headquarters (10) includes a Platoon Leader (Lt,25A) and a Platoon Sergeant (E-7,31Z), Providing communications support to the

Corps TAC CP.

(a) The Multichannel Terminal Section (11) provides the equipment to terminate two multichannel systems from two separate adjacent signal nodes. There are three Radio Terminal Sets, AN/TRC-151. One terminal is provided for displacement capability. This section also provides two multichannel AN/TRC-152 radio relays to extend the range of the systems terminated by the multichannel terminal section.

(b) The Radio Section (12) provides two AN/GRC-122's and personnel to operate a station in the Corps command RATT net. The AN/VRC-47 is provided to allow the Platoon Leader to operate a station in the Battalion Command FM net and ability to monitor the the Multichannel Engineering net. One vehicular mounted AN/VRC-49 is provided for Net Radio Interface.

(c) The Wire Installation Section (13) provides wire/cable teams to interconnect the communications assemblages and to install internal wire and telephone communications. The team also provides access points of user operated/installed equipment. There is no patching facility provided for this section.

(d) The Switchboard Section (14) operates the AN/TCC-35V2 switchboard.

(e) The record traffic section (15) contains one AN/TSC-58 and AN/GSQ-80 to terminate up to three full-duplex teletype circuits. This section is capable of transmitting and receiving record traffic by different means i.e. teletype, facsimile, or RATT.

ANNEX C

MAIN OPERATIONS COMPANY

COMMAND OPERATIONS BATTALION

(Organization, Mission and Capabilities)

MAIN OPERATIONS COMPANY
COMMAND OPERATIONS BATTALION
(PROPOSED)
TOE 11-407J590

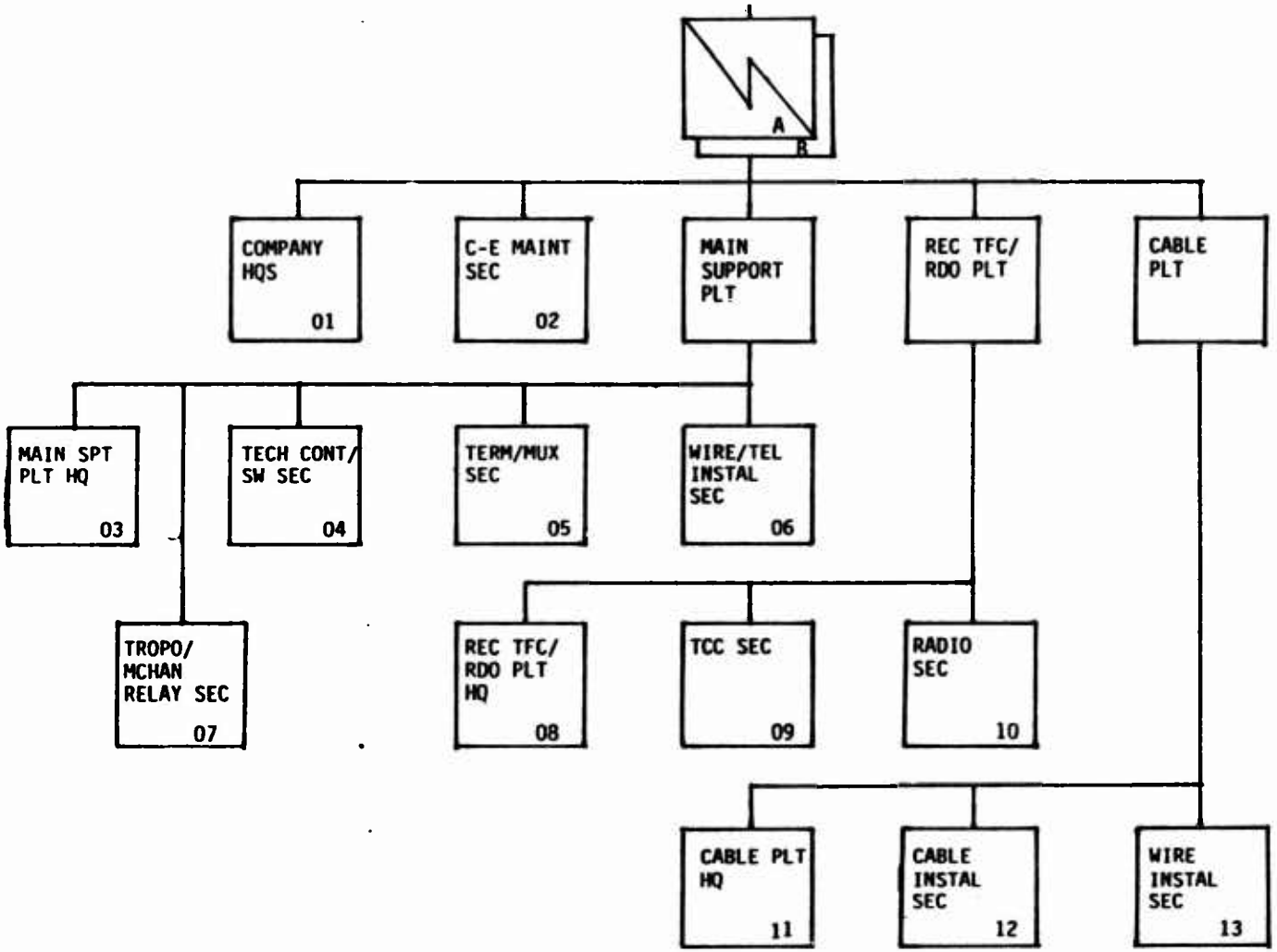


Figure C-1

MAIN OPERATIONS COMPANY

CORPS COMMAND OPERATIONS BATTALION

SECTION I

ORGANIZATION

1. MISSION:

a. To provide communications support to the Corps Main or Corps Main (jump) CP.

b. To install, operate and maintain multichannel access to the corps communications system.

c. To install, operate and maintain single channel command communications, to include HF record traffic and FM net radio interface (NRI) facilities at Corps Main and Corps Main (jump) CP.

d. To install, operate and maintain a telecommunications center for processing of record traffic

at the Corps Main CP or Corps Main (jump) CP.

e. To provide air/motor messenger service.

f. Install an automatic switching center and interconnecting cables to signal assemblages at the Corps Main CP, providing telephone and data access for subscribers into the corps automatic telephone and message switched network.

2. ASSIGNMENT: Organic to tne Corps Command Operations Battalion, TOE 11-405J590.

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Two Line-of-sight multichannel communications systems to adjacent communications nodes, providing secure telephone, record traffic, facsimile and data channels to link subscribers at the Corps Main or Main (jump) CP into the corps cmmunications system.

(2) Capability to install two multichannel radio relays, extending the range of the multichannel systems that connect the Corps Main or Main(jump) CP to the adjacent

communications nodes. Additional radio relay assets provide limited split-terminal or down-the-hill capability.

(3) An automatic telephone central office, telephones, telephone and data circuits, and all local communications wire/cable.

(4) Central power for the communications facility.

(5) Facilities for a communications nodal control element (CNCE) to provide management and technical control of signal operations.

(6) A telecommunications center for processing record traffic, an automatic message processing facility, and motor/air messenger service.

(7) Net radio interface facility.

(8) Net Control Stations (NCS) as required for the corps command/operations RATT nets.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in coordinated defense of the corps main CP and CTOC perimeter

with colocated units.

d. This unit performs organizational level maintenance of organic vehicles and power equipment.

e. This unit performs intermediate forward maintenance on organic C-E equipment.

f. This unit is dependent upon:

(1) HHC, Command Operations Battalion, TOE 11-405J590 for:

(a) Staff planning, guidance and supervision.

(b) Unit level administrative services.

(c) Staff supervision of wheeled vehicle, power generator and air conditioner unit-level maintenance. Back-up organizational maintenance of organic vehicles and power equipment.

(D) Intermediate forward maintenance of organic C-E and COMSEC equipment.

(2) The Corps Aviation Brigade for rotory wing

aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, aerial messenger and CP/Relay site reconnaissance as required.

(3) Other command units, as needed for personnel, finance, logistical, medical support, NBC decontamination, photographic, supplemental transportation, and food service support.

(4) Elements of the Corps Support Command for maintenance contact teams and intermediate maintenance of automotive, air conditioner and power generator equipment.

4. BASIS OF ALLOCATION: Two per Corps Command Operations Battalion. TOE 11-405J590.

5. CATEGORY: This unit is designated a Category II (ALO 3) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications

FM 24-17 Tactical Telecommunications Center Operation

FM 24-18 Field Radio Techniques

FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet, Main Operations Company, Command Operations Battalion. (undated)

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To provide communications support to the Corps Main or Corps Main (jump) CP.

b. To install, operate and maintain multichannel access to the corps communications system.

c. To install, operate and maintain single channel command communications, to include HF, record traffic, and FM NRI facilities at Corps Main and Corps Main (jump) CP.

d. To install, operate and maintain a telecommunications center for processing of record traffic at the Corps Main CP or Corps Main (jump) CP.

e. Install an automatic switching center and interconnecting cables to signal assemblages at the corps main or main (jump) CP, providing telephone and data access for subscribers into the corps automatic telephone and message switched network.

3. ASSIGNMENT: Two Main Oerations Companies are assigned to each Corps Command Operations Battalion.

4. EMPLOYMENT: One of the two Main Operations Companies will be located in the vicinity of the Command Operations Battalion Headquarters at the Corps Main CP, while the second Main Operations Company will be displaced to the next planned location of the Corps Main CP to preinstall communications, thus minimizing the disruption to command and control during the actual displacement of the Corps Main CP.

5. METHODS OF OPERATION:

a. The Main Operations Company, Command Operations Battalion, consists of a Company Headquarters (01), C-E Maintenance Section (02), Main Support Platoon , Record Traffic/Radio Platoon, and a Cable Platoon.

b. Company headquarters (01) is organized along conventional lines. It contains personnel and facilities for command and control of the company mission. Personnel and equipment are provided for supply, administration, dining facility operations, and maintenance of small arms. POL resupply, wheel vehicle recovery, and organizatioal maintenance of power generators, air conditioning equipment, and vehicles . Formal company administration is provided by the Battalion Personnel Administrative Center (PAC). The unit has an organic food service capability. Should the Command Operations Battalion be co-located with the company, Headquarters and Headquarters Company will provide supplemental cooks.

(1) The commander (Cpt,25A),assisted by the Executive/Operations Officer(LT,25A), and the First Sergeant (E-8,31Z), provide command, control and coordination of company operations. The company operations is authorized an

AN/MSC-31 operations central office to establish the CNCE.

(2) The C-E Maintenance Section provides intermediate forward maintenance of organic C-E equipment.

(3) The Main Support Platoon Hqs (03) includes a Platoon Leader (LT,25A) and a Platoon Sergeant (E7,31Z). The Platoon consists of a switchboard/tech control section (04), a terminal/multichannel section (05), a wire/telephone installation section (06), and a Tropo/Multichannel Relay Section (07).

(a) The switchboard/tech control section (04) contains one (1) AN/TTC-38 V1 automatic telephone switchboard and an AN/TSQ-84 patch panel for circuit control.

(b) The terminal/multichannel section (05) consists of both terminal radio and multiplexer personnel and equipment, to provide multichannel systems to the Corps Main or Main (jump) CP. There are two (2) AN/TRC-151 multichannel terminal to terminate the two multichannel systems to the adjacent area signal nodes,in addition, the section operates two (2) Terminal Telephone AN/TCC-65 and one (1) AN/TCC-73V2. The platoon is also equipped with one AN/MSC-64 single-channel tactical satellite (TACSAT)

terminal to provide connectivity to the European Command.

(c) The wire/telephone installation section (06) consists of personnel required for installing/removing the local wire and telephones in the Corps Main or Main (jump) CP, to include trouble-shooting, limited maintenance,and accounting for property.

(d) The Tropo/Multichannel Relay Section (07) installs and operates four (4) AN/TRC-152 Radio Repeater Sets to extend the range of line-of-sight multichannel systems and two (2) Radio Terminal Sets AN/TRC-112, to provide tropospheric scatter communications to units located at distances too great to effectively be serviced by line-of-sight equipment. This equipment will be replaced by the AN/TSC-85 and AN/TSC-93 Tactical Satellite (TACSAT) Terminals.

(3) The Record Traffic/Radio Platoon is headed by a Platoon leader (LT,25A) and provides telecommunications center services, automatic message processing equipment, operates the RATT stations, and provides net radio interface facilities, and motor/air messenger service for the Corps Main or Corps Main (jump) CP. The section consists of the following major items of equipment: One(1) AN/TYC-16 automatic message distribution system, two (2) AN/TSC-58

telegraph terminals, two (2) AN/GSQ-80 message centers, four (4) AN/GRC-122 radio teletypes, and a vehicular mounted AN/VRC-49 net radio interface unit.

(4) The Cable Platoon includes a Platoon Leader (LT,25A) and personnel to install, recover and to maintain field wire(WF-16), PCM and 26 pair cable. Installation/recovery is accomplished using RL-207 gasoline driven, vehicular mounted cable reeling machines. The Platoon consists of a Platoon Hqs, a wire installation section and a cable installation section.

ANNEX D

SUPPORT OPERATIONS COMPANY

COMMAND OPERATIONS BATTALION

(Organization, Mission and Capabilities)

SUPPORT OPERATIONS COMPANY
COMMAND OPERATIONS BATTALION
(PROPOSED)
TOE 11 408J590

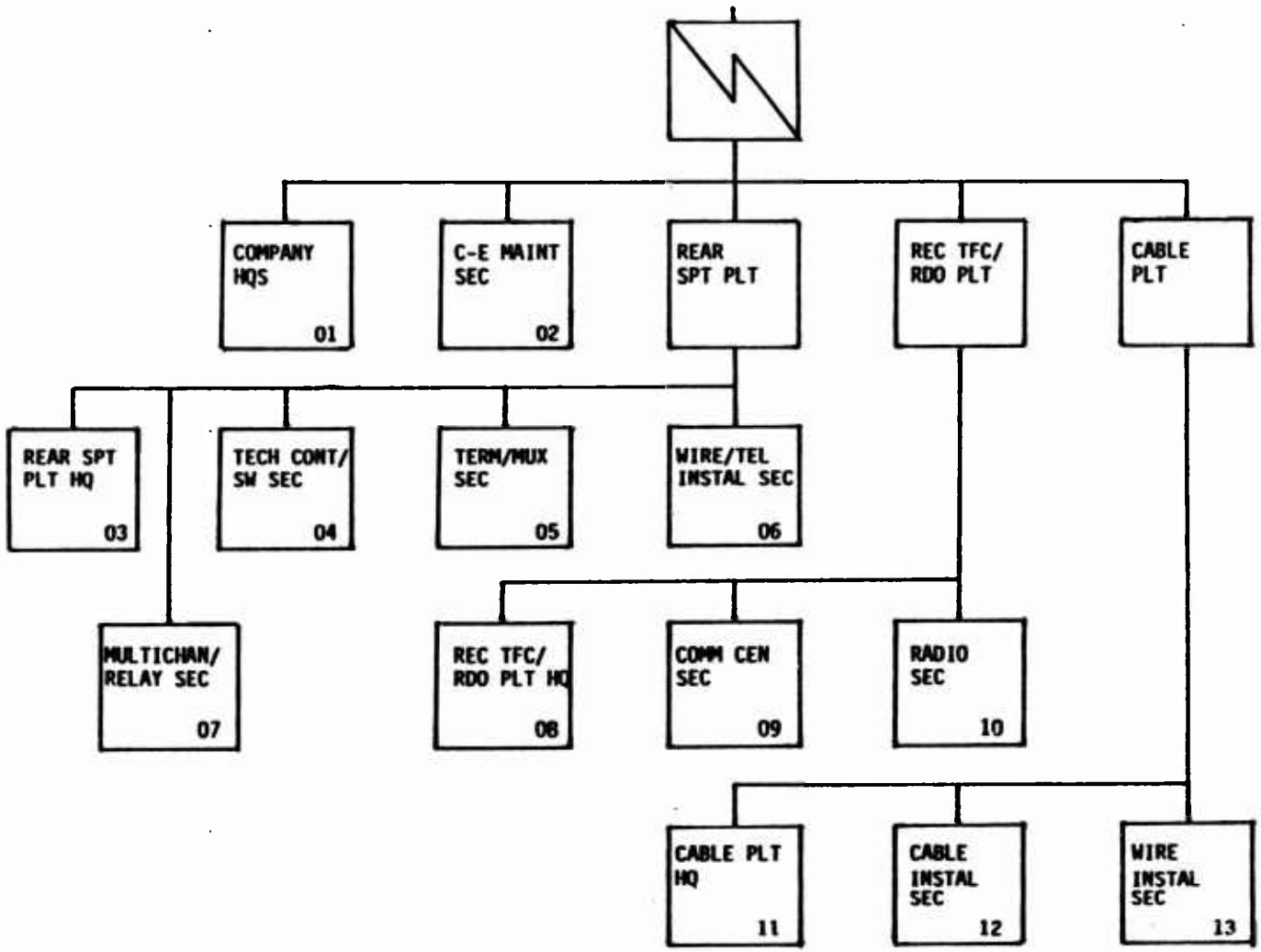


Figure D-1

SUPPORT OPERATIONS COMPANY

CORPS COMMAND OPERATIONS BATTALION

SECTION I

ORGANIZATION

1. MISSION:

a. To provide communications support to the Corps Support Command/ Corps Rear CP.

b. To install, operate and maintain multichannel access to the corps communications system.

c. To install, operate and maintain single channel command communications, to include HF record traffic and FM net radio interface (NRI) facilities.

d. To install, operate and maintain a telecommunications center for processing of record traffic.

e. To provide air/motor messenger service.

f. Install an automatic switching center and interconnecting cables to signal assemblages, providing telephone and data access for subscribers into the corps automatic telephone and message switched network.

2. ASSIGNMENT: Organic to the Corps Command Operations Battalion, TOE 11-405J590.

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Two Line-of-sight multichannel communications systems to adjacent communications nodes, providing secure telephone, record traffic, facsimile and data channels to link subscribers at the Corps Support Command/Rear CP into the corps cmmunications system.

(2) Capability to install two multichannel radio relays, extending the range of the multichannel systems that connect the Corps Support Command/Rear CP to the adjacent communications nodes. Additional radio relay assets provide limited split-terminal or down-the-hill capability.

(3) An automatic telephone central office, telephones, telephone and data circuits, and all local communications wire/cable.

(4) Central power for the communications facility.

(5) Facilities for a communications nodal control element (CNCE) to provide management and technical control of signal operations.

(6) A telecommunications center for processing record traffic, an automatic message processing facility, and motor/air messenger service.

(7) Net radio interface facility.

(8) Provide stations as required, for the corps command/operations RATT nets.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in coordinated defense of the Corps Support Command/Rear CP perimeter, with colocated units.

d. This unit performs organizational level maintenance

of organic vehicles and power equipment.

e. This unit performs intermediate forward maintenance of organic C-E equipment.

f. This unit is dependent upon:

(1) HHC, Command Operations Battalion, TOE 11-405J590 for:

(a) Staff planning, guidance and supervision.

(b) Unit level administrative services.

(c) Staff supervision of wheeled vehicle, power generator and air conditioner maintenance. Back-up organizational maintenance of organic vehicles and power equipment.

(D) Intermediate forward maintenance of organic C-E equipment.

(2) The Corps Aviation Brigade for rotory wing aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, aerial messenger and CP/Relay site

reconnaissance as required.

(3) Other command units, as needed for personnel, finance, logistical, medical support, NBC decontamination, photographic, supplemental transportation, and food service support.

(4) Elements of the Corps Support Command for maintenance contact teams and intermediate maintenance of automotive, air conditioner and power generator equipment.

4. BASIS OF ALLOCATION: One per Corps Command Operations Battalion. TOE 11-405J590.

5. CATEGORY: This unit is designated a Category II (ALO 3) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications

FM 24-17 Tactical Telecommunications Center Operation

FM 24-18 Field Radio Techniques

FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet,Support Operations Company, Command Operations Battalion. (undated)

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To provide communications support to the Corps Support Command/Rear CP.

b. To install, operate and maintain multichannel access to the corps communications system.

c. To install, operate and maintain single channel command communications, to include HF, record traffic and FM

NRI facilities.

d. To install, operate and maintain a telecommunications center for processing of record traffic at the Corps Support Command/Rear CP.

e. Install an automatic switching center and interconnecting cables to signal assemblages at the Corps Support Command/Rear CP, providing telephone and data access for subscribers into the corps automatic telephone and message switched network.

3. ASSIGNMENT: One Support Operations Company is assigned to each Corps Command Operations Battalion.

4. EMPLOYMENT: The Support Operations Company will locate in the vicinity of the Corps Support Command/Rear CP.

5. METHODS OF OPERATION:

a. The Support Operations Company, Command Operations Battalion, consists of a Company Headquarters (01), C-E Maintenance Section (02), Rear Support Platoon, Record Traffic/Radio Platoon, and a Cable Platoon.

b. Company headquarters (01) is organized along

conventional lines. It contains personnel and facilities for command and control of the company mission. Personnel and equipment are provided for supply, administration, dining facility operations, and maintenance of small arms. POL resupply, wheel vehicle recovery, and organizational maintenance of power generators, air conditioning equipment, and vehicles . Formal company administration is provided by the Battalion Personnel Administrative Center (PAC). The unit has an organic food service capability.

(1) The Commander (Cpt,25A), assisted by the Executive/Operations Officer(LT,25A), and the First Sergeant (E-8,31Z), provide command, control and coordination of company operations. The company operations is authorized an AN/MSC-31 operations central office to establish the CNCE.

(2) The C-E Maintenance Section (02) provides intermediate forward maintenance of organic C-E equipment.

(3) The Rear Support Platoon Hqs (03) includes a Platoon Leader (LT,25A) and a Platoon Sergeant (E7,31Z). The Platoon consists of a switchboard/tech control section (04), a terminal/multichannel section (05), a wire/telephone installation section (06), and a Multichannel Relay Section (07).

(a) The switchboard/tech control section (04) contains one (1) AN/TTC-38V1 automatic telephone switchboard and an AN/TSQ-84 patch panel for circuit control.

(b) The terminal/multichannel section (05) consists of both terminal radio and multiplexer personnel and equipment, to provide multichannel systems to the Corps Support Command/Rear CP. There are two (2) AN/TRC-151 multichannel terminals to terminate the two multichannel systems to the adjacent area signal nodes,in addition, the section operates two (2) Terminal Telephone AN/TCC-65 and one (1) AN/TCC-73V2.

(c) The wire/telephone installation section (06) consists of personnel required for installing/removing the local wire and telephones in the Corps Support Command/Rear CP, to include trouble-shooting, limited maintenance,and accounting for property.

(d) The Multichannel Relay Section (07) installs and operates five (5) AN/TRC-152 Radio Repeater Sets to extend the range of line-of-sight multichannel systems.

(3) The Record Traffic/Radio Platoon is headed by a Platoon leader (LT,25A) and provides telecommunications

center services, automatic message processing equipment, operates the RATT stations, and motor/air messenger service for the Corps upport Command/Rear CP. The section consists of the following major items of equipment: two (2) AN/TSC-58 telegraph terminals, two (2) AN/GSQ-80 message centers, and two (2) AN/GRC-122 radio teletypes.

(4) The Cable Platoon consists of a cable and wire installation section. Included is a Platoon Leader (LT,25A) and personnel to install, recover and to maintain field wire(WF-16), PCM and 26 pair cable. Installation/recovery is accomplished using RL-207 gasoline driven, vehicular mounted cable reeling machines.

ANNEX E

HEADQUARTERS AND HEADQUARTERS COMPANY

CORPS AREA SIGNAL BATTALION

(Organization, Mission and Capabilities)

HHC, AREA SIGNAL BATTALION (PROPOSED)
TOE 11 416J590

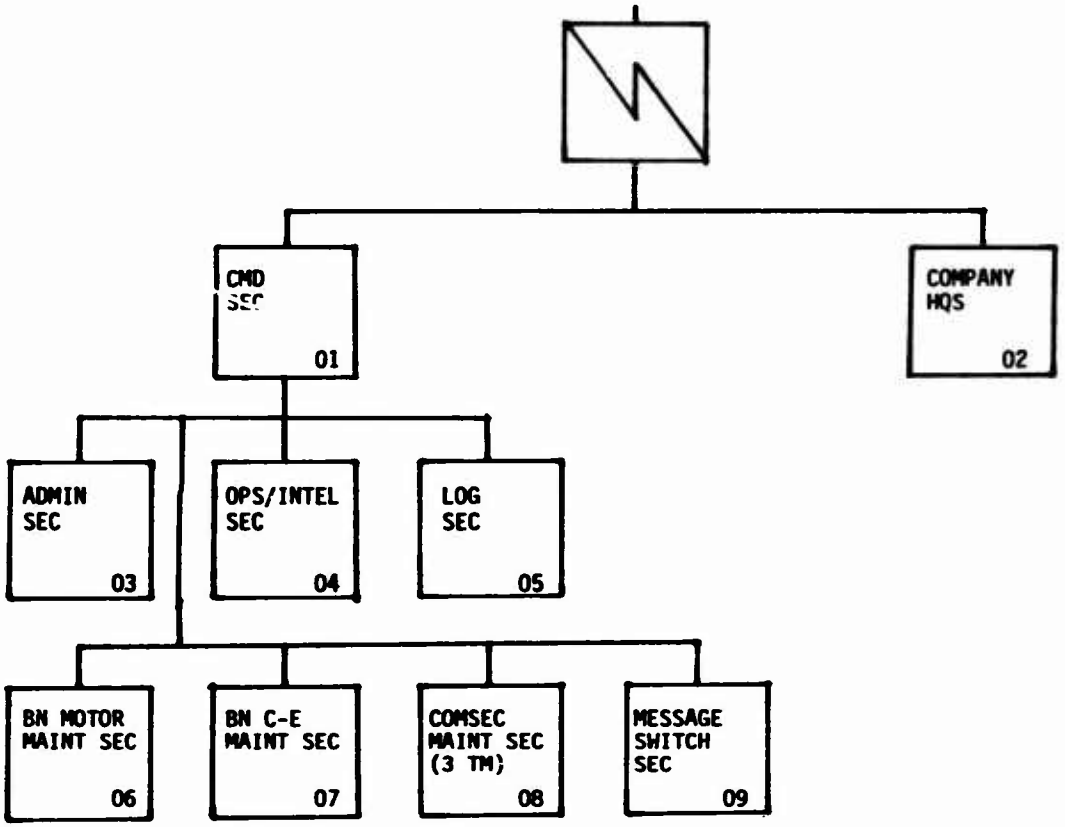


Figure E-1

HEADQUARTERS AND HEADQUARTERS COMPANY

CORPS AREA SIGNAL BATTALION

SECTION I

ORGANIZATION

1. MISSION:

a. To direct and coordinate operations of the Corps Area Signal Battalion.

b. Provide facilities with which the Battalion Commander controls the battalion

2. ASSIGNMENT: Organic to the Corps Area Signal Battalion, TOE 11-414J590.

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Command and control, staff planning, and supervision of the battalion.

(2) Religious services for the battalion.

(3) Battalion level administrative and supply services.

(4) Organizational maintenance of company vehicles, generators, C-E equipment ,and arms.

(5) Unit administration and supply.

(6) Intermediate forward level of COMSEC and C-E maintenance for the battalion.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in coordinated defense of unit's area or perimeter.

d. This unit is dependant upon:

(1) The Corps Aviation Brigade for rotory wing

aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, aerial messenger as required and CP/Relay site reconnaissance as required.

(2) One of the three Area Signal Companies for food service support.

(3) Elements of the Corps Support Command for maintenance contact teams, intermediate maintenance of automotive, air conditioner and power generator equipment.

(4) Other command units, as needed for personnel, finance, logistical, medical support, NBC decontamination, photographic, and food service support.

4. BASIS OF ALLOCATION: One per Corps Area Signal Battalion.

5. CATEGORY: This unit is designated a Category II (ALO 3) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications

FM 24-17 Tactical Telecommunications Center Operation

FM 24-18 Field Radio Techniques

FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet, Headquarters and Headquarters Company, Corps Area Signal Battalion. (undated)

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To direct and coordinate operations of the Corps Area Signal Battalion.

b. Provide facilities with which the Battalion Commander controls the battalion.

3. ASSIGNMENT: One Headquarters and Headquarters Company assigned to each Corps Area Signal Battalion.

4. EMPLOYMENT:

a. The Company Headquarters will be located in the vicinity of the Corps Area Signal Battalion Headquarters.

b. The Battalion Headquarters will locate in the vicinity of one of the Area Signal Companies.

5. METHODS OF OPERATION:

a. The Headquarters and Headquarters Company, Corps Area Signal Battalion, consists of a Command Section (01), and a Company Headquarters (02).

b. The Command Section (01) is organized along traditional lines providing personnel and facilities for

command, control of the battalion operations and coordination of the battalion staff. The battalion staff consists of an Admin Section (03), Operations and Intelligence Section (04), Logistics Section (05), Battalion Motor Maintenance Section (06), Battalion C-E Maintenance Section (07), COMSEC Maintenance Section (08), and a Message Switch Section (09).

(1) The Battalion Commander (LTC,25A), assisted by the Executive Officer (Maj,25A), and the Command Sergeant Major (E9,00Z), provide the command and control of the battalion operations. The Chaplain conducts religous services and provides counselling and guidance to servicemembers and their families.

(2) The Battalion Administrative Section (03) is headed by the S-1 Officer (Cpt,25A41). This section provides administrative and personnel actions for the entire battalion. Operates the Personnel Administrative Center (PAC) and is responsible for the battalion publications library and runs the distribution center for the battalion. Advises the commander on all issues pertaining to admin and personnel. Provides staff assistance to the subordinate units.

(3) The Operations and Intelligence Section (04)

provides all C-E Management Systems functions, prepares plans and operations orders, coordinates with the other signal battalions operations and the Signal Brigade Operations Section. The section operates a Communications System Control Element (CSCE), directing and controlling organic C-E systems, and provides supervision for each of the subordinate Communications Nodal Control Elements (CNCE). The Section is headed by the S3 (Maj,25A), with assistance from the SYSCON Officer (Cpt,25A), and the Tel/Dig Communications Officer(Lt,25B). He also serves as the S-2 Officer. The Telecommunications Technician (TCCT) (WO,290AO), develops TCC plans and advises the S-3 in all matters pertaining to Telecommunications Center operations and training. The section is authorized one (1) AN/MSC-25 for the CSCE and one (1) AN/MSC-32 for planning and for management of the software for the automatic circuit and message switches.

(4) The Logistics Section (05) is headed by the S-4 Officer (Cpt,72A) assisted by the Property Book Officer (WO,761AO). This section provides staff supervision for all logistics related actions. Develops logistic plans, supervises the battalion budgeting and execution function. Keeps the battalion property record and receives, issues, and makes turn-ins on all expendable and non-expendable equipment and supplies.

(5) The Battalion Maintenance Officer (Cpt,25A) provides staff supervision and command guidance in all areas of maintenance of organic equipment. He is assisted by a Motor/Power Technician (WO,630AO), who supervises the Battalion Motor Maintenance Section (06), the Communications-Electronics Technician (WO,286AO) who supervises the Battalion Electronics Maintenance Section (07), and the COMSEC Equipment Repair Technician (WO,290AV), who supervises the COMSEC Maintenance Section. Also included in this section is the AN/TYC-39 Automatic Message Switch. This equipment is authorized an OIC (WO,290AO). For operations this equipment will be attached to one of the Area Companies.

c. Company Headquarters (02) is organized along conventional lines. The Commander (Cpt,25A),assisted by the First Sergeant (E-8,31Z), provide command, control and coordination of company operations. Personnel and equipment are provided for supply, administration, POL resupply, wheel vehicle recovery, organizational level maintenance of organic arms, power generators, air conditioning equipment, vehicles and limited C-E equipment. Formal company administration is provided by the Battalion Personnel Administrative Center (PAC).

ANNEX F

AREA SIGNAL COMPANY

CORPS AREA SIGNAL BATTALION

(Organization, Mission and Capabilities)

AREA COMPANY
AREA SIGNAL BATTALION (PROPOSED)
TOE 11 417J590

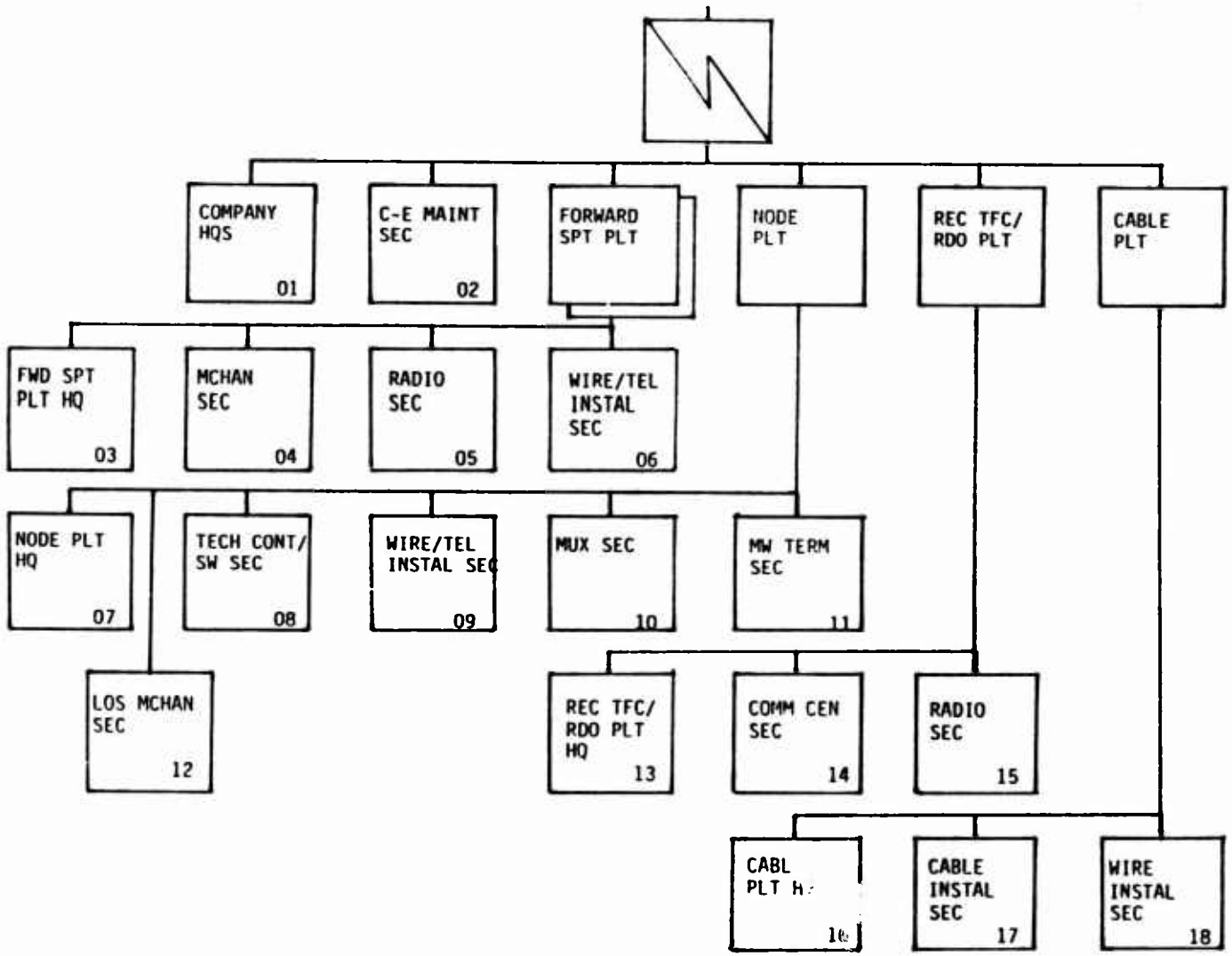


Figure F-1

AREA COMPANY

CORPS AREA SIGNAL BATTALION

SECTION I

ORGANIZATION

1. MISSION:

a. To provide an area signal node as part of the corps communications network.

b. To install, operate and maintain multichannel systems to corps units requiring access to the corps communications system.

c. To install, operate and maintain RATT stations at designated corps subordinate commands, and to the adjacent corps on the right flank.

2. ASSIGNMENT: Organic to the Corps Area Signal Battalion,

3. CAPABILITIES:

a. At level 1 this unit provides on a 24 hour basis:

(1) Three line-of-sight multichannel communications systems to terminate 24/48-channel systems between three adjacent area signal nodes.

(2) Two line-of-sight multichannel communications systems, providing secure telephone, record traffic, facsimile and data channels to provide designated units access into the corps communications system.

(3) Capability to install two multichannel radio relays, extending the range of the multichannel extension links for designated units, or providing limited down-the-hill or split-terminal communications.

(4) An automatic telephone central office, telephones, telephone and data circuits, and all local communications wire/cable.

(5) Central power for the communications facility.

(6) Facilities for a communications nodal control element (CNCE) to provide management and technical control of signal operations.

(7) A telecommunications center for processing record traffic, an automatic message processing facility, and limited motor messenger service.

(8) Cable or wire extensions to designated units that require access to the corps area signal node.

(9) RATT stations for those designated subscribers requiring access into the ccrps comman/operations RATT net.

(10) Net radio interface facilities.

b. This unit is not adaptable to Type B organization.

c. Individuals of this organization can assist in coordinated defense of the companies area or installation.

d. This unit performs organizational level maintenance on organic vehicles and power equipment.

e. This unit performs intermediate forward maintenance on organic C-E equipment.

f. This unit is dependent upon:

(1) HHC, Corps Area Signal Battalion, TOE 11-416J590 for:

(a) Staff planning, guidance and supervision.

(b) Unit level administrative services.

(c) Staff supervision of organizational maintenance on wheeled vehicle, power generator and air condition equipment.

(d) Intermediate forward COMSEC maintenance.

(2) The Corps Aviation Brigade for rotory wing aircraft support for command and control of dispersed sites, transportation, evacuation and replacement of critical equipment, and CP/Relay site reconnaissance as required.

(3) Other command units, as needed for personnel, finance, logistical, medical support, NBC decontamination, photographic, supplemental transportation, and food service support.

(4) Elements of the Corps Support Command for maintenance contact teams and intermediate maintenance of

automotive, air conditioner and power generator equipment.

(5) Rear area security forces for security of the signal node and isolated sites.

(6) Supported units for security, food service, and POL support for those elements supporting other corps units.

4. BASIS OF ALLOCATION: Three per Corps Area Signal Battalion. TOE 11- 415J590.

5. CATEGORY: This unit is designated a Category II (ALO 3) unit due to the mission and category of the units which it supports. (For unit categories, see AR 310-25.)

6. DOCTRINE: The following doctrinal publications are applicable to the operations of this unit:

FM 24-1 Combat Communications
FM 24-17 Tactical Telecommunications Center Operation
FM 24-18 Field Radio Techniques
FM 11-92 Combat Communications Within The Corps

NARRATIVE DISCUSSION:

1. GENERAL:

a. References:

(1) Battlefield Communications Review II (BCRII), 30 November 1984.

(2) Automated Unit Reference Sheet, Area Company, Area Signal Battalion. (undated)

b. Basis for preparation/revision of TOE: BCRII 30 November 1984.

2. MISSION:

a. To install, operate and maintain an area signal node as part of the corps communications system.

b. To install, operate and maintain multichannel systems between the area signal node and three adjacent nodes.

c. To install, operate, and maintain multichannel systems to designated corps units requiring access to the corps.

d. An automatic telephone central office, telephones, telephone and data circuits, and all local communications wire/cable.

e. Central power for the communications facility.

f An communications nodal control element (CNCE) to provide management and technical control of signal operations.

g. A telecommunications center for processing record traffic, an automatic message processing facility, and limited motor messenger service.

h. Net radio interface facility.

i. Cable or wire extensions to designated units that require access to the corps area signal node.

j. To install, operate and maintain RATT stations for those designated corps units requiring access to the corps command/operations RATT net.

3. ASSIGNMENT: Three Area Companies are assigned to each Corps Area Signal Battalion.

4. EMPLOYMENT: The company will be positioned in the corps area, based on unit density and terrain considerations, to best serve to corps communications network. The HHC, Area Signal Battalion will co-locate with one of the area companies.

5. METHODS OF OPERATION:

a. The Area Company, Corps Area Signal Battalion, consists of a Company Headquarters (01),C-E Maintenance Section (02), two Support Platoons, a Node Platoon , Record Traffic/Radio Platoom, and a Cable Platoon .

b. Company Headquarters (01) is organized along conventional lines. It contains personnel and facilities for command and control of the company mission. Personnel and equipment are provided for supply, administration, dining facility operations, and maintenance of small arms. POL resupply, wheel vehicle recovery, and organizational maintenance of power generators, air conditioning equipment, and vehicles. Unit has personnel and equipment to perform intermediate forward maintenance of C-E equipment (02). Formal company administration is provided by the Battalion Personnel Administrative Center (PAC). The unit has an organic food service capability. Should the HHC, Corps Area

Signal Battalion be co-located with the company, Headquarters and Headquarters Company will provide supplemental cooks.

(1) The commander (Cpt,25A),assisted by the Executive/Operations Officer (LT,25A), and the First Sergeant (E-8,31Z), provide command, control and coordination of company operations. The company operations is authorized an AN/MSC-31 operations central office to establish the CNCE.

(2) The two Forward Support Platoons are each authorized a Platoon Leader (LT,25A) and a Platoon Sergeant (E7,31Z). The platoon consists of Platoon Headquarters(03), a multichannel section (04), a Radio Section (05), and a Wire/telephone installation section (06).

(a) The multichannel section (04) consists of personnel and equipment to provide multichannel access to designated corps units. There are two (2) AN/TRC-151 multichannel radio terminals and one (1) AN/TRC-152 multichannel radio relay to provide this access. When used with the sections one (1) AN/TCC-72 multichannel telephone terminal, can provide limited split-terminal or down-the-hill capability.

(b) The radio (RATT) section (05) is authorized two (2) AN/GRC-122 radio teletypers to provide access for designated subscribers into the corps command/operations RATT net.

(c) The Wire/telephone installation section (06) installs wire and cable from the multichannel equipment and the subscribers switchboard equipment, or installs telephones to terminate long-local circuits from the signal node.

(3) The Node Platoon Hqs (02) includes a Platoon Leader (LT,25A) and a Platoon Sergeant (E7,31Z). The Platoon consists of a Platoon Headquarters (07) a switchboard/tech control section (08), a Wire/telephone installation section (09), a multiplexer section (10), a microwave terminal section (11), and a line-of-sight multichannel section (12).

(a) The switchboard/tech control section (08) contains one (1) AN/TTC-39 V3 automatic telephone switchboard, and an AN/TSQ-84 patch panel for a circuit control facility.

(b) The wire/telephone installation section (09) consists of personnel required for installing/removing

the local wire and telephones in the area serviced by the node, to include trouble-shooting, limited maintenance,and accounting for property. This section also transports and installs two (2) AB-585 towers.

(c) The multiplexer section (10) consists of personnel to install and operate two (2) terminal telephone AN/TCC-73V2 and one (1) terminal telephone AN/TCC-65.

(d) The microwave terminal section (11) consists of terminal personnel and equipment, to provide multichannel systems to three of the adjacent nodes. There are three (3) AN/TRC-138 multichannel terminals in the section.

(e) The line-of-sight (LOS) multichannel section consists of personnel to install and operate one (1) AN/TRC-151 radio terminal set and three (3) repeater sets radio AN/TRC-152.

(3) The record traffic/radio platoon is headed by a platoon leader (LT,25A) and provides telecommunications center services, automatic message processing equipment, provides net radio interface facilities, and limited motor messenger service. The section consists of the following major items of equipment: one (1) AN/TSC-58 telegraph

terminal, one (1) AN/GSQ-80 message center, AN/VRC-49 radio for net radio interface unit, and one (1) AN/GRC-122 Radio teletypewriter set.

(4) The cable platoon includes a platoon leader (LT,25A) and personnel to install, recover and to maintain field wire(WF-16), PCM and 26 pair cable. Installation/recovery is accomplished using RL-207 gasoline driven, vehicular mounted cable reeling machines.

ANNEX G

MAJOR EQUIPMENT DISTRIBUTION

CRITICAL EQUIPMENT LIST

SORTED BY EQUIPMENT TYPE

UPDATED 27-Mar-85

			SIG BDE HQ	COMMAND OPS BN				AREA BN1					AREA BN2							
		FY 87	SRC: 11402J590	SRC: 11405J590				SRC: 11415J590					SRC: 11415J590				UNIT	FY87		
NOMEN	LINE_NO	AUTH	HHC	HHC	A CO	B CO	C CO	NOMEN	HHC	A CO	B CO	C CO	NOMEN	HHC	A CO	B CO	C CO	TOTAL	OVER/UNDER	NOMEN	TYPE
TTC-35 V2	D79488	2		2				TTC-41 V2					TTC-41 V2					2	0	TTC-41 V2	SWI
TTC-39 V3	L17889	6				1	1	TTC-39 V3		1	1	1	TTC-39 V3		1	1	1	6	0	TTC-39 V3	SWI
TTC-38 V1	D78523	3				1	1	TTC-38 V1					TTC-38 V1					3	0	TTC-38 V1	SWI
MSC-64	S35145	2				1	1	MSC-64					MSC-64					2	0	MSC-64	SAT
TRC-152	R78867	45		2	4	4	5	TRC-152		5	5	5	TRC-152		5	5	5	45	0	TRC-152	RAD
TRC-151	D92899	39		3	2	2	2	TRC-151		5	5	5	TRC-151		5	5	5	39	0	TRC-151	RAD
TRC-138	R78848	18						TRC-138		3	3	3	TRC-138		3	3	3	18	0	TRC-138	RAD
TRC-112	D92848	4			2	2		TRC-112					TRC-112					4	0	TRC-112	RAD
TSQ-84	E68197	9			1	1	1	TSQ-84		1	1	1	TSQ-84		1	1	1	9	0	TSQ-84	PAT
TCC-73A V1	T58895	15			1	1	1	TCC-73A V2		2	2	2	TCC-73A V2		2	2	2	15	0	TCC-73A V2	MUX
TCC-72	V58827	12						TCC-72		2	2	2	TCC-72		2	2	2	12	0	TCC-72	MUX
TCC-65	V28144	12			2	2	2	TCC-65		1	1	1	TCC-65		1	1	1	12	0	TCC-65	MUX
GRC-122	G98188	38		2	4	4	2	GRC-122		3	3	3	GRC-122		3	3	3	38	0	GRC-122	HF
VRC-49	Q55114	8			1	1		VRC-49		1	1	1	VRC-49		1	1	1	8	0	VRC-49	FM/RAD
VRC-47	Q54174	14	2	1	1	1	1	VRC-47	1	1	1	1	VRC-47	1	1	1	1	14	0	VRC-47	FM/RAD
VRC-46	Q53881	88						VRC-46					VRC-46					8	88	VRC-46	FM/RAD
KY-57	S81373	134						KY-57					KY-57					8	134	KY-57	FM/CRYPTO
MSC-32	N28663	5	1	1			1	MSC-32	1				MSC-32	1				5	0	MSC-32	CON
MSC-31	N28115	8			1	1		MSC-31		1	1	1	MSC-31		1	1	1	8	0	MSC-31	CON
MSC-25	N19977	6	3	1				MSC-25	1				MSC-25	1				6	0	MSC-25	CON
TYC-39	C41861	3		1				TYC-39	1				TYC-39	1				3	0	TYC-39	COM
TYC-16	Z88212	2			1	1		TYC-16					TYC-16					2	0	TYC-16	COM
TSC-50	V57504	13		1	2	2	2	TSC-50		1	1	1	TCS-50		1	1	1	13	0	TSC-50	COM
MSC-29	V57504	0						MSC-29					MSC-29					0	0	MSC-29	COM
GSQ-88	D78271	13		1	2	2	2	GSQ-88		1	1	1	GSQ-88		1	1	1	13	0	GSQ-88	COM
AB-585	W71281	12						AB-585		2	2	2	AB-585		2	2	2	12	0	AB-585	ANT
AB-216	W71876	4						AB-216	2				AB-216	2				4	0	AB-216	ANT
M-816	X63299	12		1	1	1	1	M-816	1	1	1	1	M-816	1	1	1	1	12	0	M-816	AAA
5-T TANKER	V12141	13	1	1	1	1	1	5-T TANKER	1	1	1	1	5-T TANKER	1	1	1	1	13	0	5-TON TANK	AAA
FUEL TRLER	V19958	13	1	1	1	1	1	FUEL TRLER	1	1	1	1	FUEL TRLER	1	1	1	1	13	0	FUEL TRLER	AAA

CRITICAL EQUIPMENT LIST

SORTED BY LINE NUMBER

UPDATED 27-Mar-85

			SIG BDE HQ	COMMAND OPS BN					AREA BN1					AREA BN2					UNIT	FY87		
		FY 87	SRC: 11402J598	SRC: 11405J598					SRC: 11415J598					SRC: 11415J598								
NOMEN	LINE_NO	AUTH	HHC	HHC	A CO	B CO	C CO	NOMEN	HHC	A CO	B CO	C CO	NOMEN	HHC	A CO	B CO	C CO	TOTAL	OVER/UNDER	NOMEN	TYPE
TTC-39 V3	C17869	6						TTC-39 V3		1	1	1	TTC-39 V3		1	1	1	6	0	TTC-39 V3	SWI
TYC-39	C41061	3		1				TYC-39	1				TYC-39	1				3	0	TYC-39	COM
GSQ-80	D78271	13		1	2	2	2	GSQ-80		1	1	1	GSQ-80		1	1	1	13	0	GSQ-80	COM
TTC-38 V1	D78523	3			1	1	1	TTC-38 V1					TTC-38 V1					3	0	TTC-38 V1	SWI
TTC-35 V2	D79488	2		2				TTC-41 V2					TTC-41 V2					2	0	TTC-41 V2	SWI
TSQ-84	E60197	9			1	1	1	TSQ-84		1	1	1	TSQ-84		1	1	1	9	0	TSQ-84	PAT
MSC-25	N19977	6	3	1				MSC-25	1				MSC-25	1				6	0	MSC-25	COM
MSC-31	N20115	8			1	1		MSC-31		1	1	1	MSC-31		1	1	1	8	0	MSC-31	COM
MSC-32	N20663	5	1	1			1	MSC-32	1				MSC-32	1				5	0	MSC-32	COM
VRC-46	Q53001	88						VRC-46					VRC-46					0	88	VRC-46	FM/RAD
VRC-47	Q54174	14	2	1	1	1	1	VRC-47	1	1	1	1	VRC-47	1	1	1	1	14	0	VRC-47	FM/RAD
VRC-49	Q55114	8			1	1		VRC-49		1	1	1	VRC-49		1	1	1	8	0	VRC-49	FM/RAD
GRC-122	Q98108	38		2	4	4	2	GRC-122		3	3	3	GRC-122		3	3	3	38	0	GRC-122	HF
TRC-112	Q92848	4			2	2		TRC-112					TRC-112					4	0	TRC-112	RAD
TRC-151	Q92899	39		3	2	2	2	TRC-151		5	5	5	TRC-151		5	5	5	39	0	TRC-151	RAD
TRC-138	R78848	18						TRC-138		3	3	3	TRC-138		3	3	3	18	0	TRC-138	RAD
TRC-152	R78867	45		2	4	4	5	TRC-152		5	5	5	TRC-152		5	5	5	45	0	TRC-152	RAD
KY-57	S81373	134						KY-57					KY-57					0	134	KY-57	FM/CRYPTO
MSC-64	S35145	2			1	1		MSC-64					MSC-64					2	0	MSC-64	SAT
TCC-73A V1	T58635	15			1	1	1	TCC-73A V2		2	2	2	TCC-73A V2		2	2	2	15	0	TCC-73A V2	MUX
5-T TANKER	V12141	13	1	1	1	1	1	5-T TANKER	1	1	1	1	5-T TANKER	1	1	1	1	13	0	5-TON TANK	AAA
FUEL TRLER	V19950	13	1	1	1	1	1	FUEL TRLER	1	1	1	1	FUEL TRLER	1	1	1	1	13	0	FUEL TRLER	AAA
TCC-65	V28144	12			2	2	2	TCC-65		1	1	1	TCC-65		1	1	1	12	0	TCC-65	MUX
MSC-29	V57584	8						MSC-29					MSC-29					8	0	MSC-29	COM
TSC-58	V57584	13		1	2	2	2	TSC-58		1	1	1	TCS-58		1	1	1	13	0	TSC-58	COM
TCC-72	V58827	12						TCC-72		2	2	2	TCC-72		2	2	2	12	0	TCC-72	MUX
AB-216	W71076	4						AB-216	2				AB-216	2				4	0	AB-216	ANT
AB-585	W71281	12						AB-585		2	2	2	AB-585		2	2	2	12	0	AB-585	ANT
M-816	X63299	12		1	1	1	1	M-816	1	1	1	1	M-816	1	1	1	1	12	0	M-816	AAA
TYC-16	Z08212	2			1	1		TYC-16					TYC-16					2	0	TYC-16	COM

APPENDIX 1

EQUIPMENT DISTRIBUTION RATIONALE

EQUIP: TCC_73A V2

BN: COMMAND OPS

NUMBER	COMPANY	REASON
0	HHC	
1	A CO	SPLIT TERM MUX
1	B CO	SPLIT TERM MUX
1	C CO	SPLIT TERM MUX
3		SUBTOTAL

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
2	A CO	SPLIT TERM MUX
2	B CO	SPLIT TERM MUX
2	C CO	SPLIT TERM MUX
6	PER AREA BN	SUBTOTAL
12		SUBTOTAL
15	TCC_73	TOTAL

EQUIP: TCC_65

BN: COMMAND OPS

NUMBER	COMPANY	REASON
0	HHC	
2	A CO	SPLIT TERM MUX
2	B CO	SPLIT TERM MUX
2	C CO	SPLIT TERM MUX
6		SUBTOTAL

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
1	A CO	SPLIT TERM MUX
1	B CO	SPLIT TERM MUX
1	C CO	SPLIT TERM MUX
3	PER AREA BN	SUBTOTAL
6		SUBTOTAL
12	TCC_65	TOTAL

EQUIP: TRC_138

BN: COMMAND OPS

NUMBER	COMPANY	REASON
0	HHC	
0	A CO	
0	B CO	
0	C CO	
SUBTOTAL 0		

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
3	A CO	INTERNODAL LINK
3	B CO	INTERNODAL LINK
3	C CO	INTERNODAL LINK
SUBTOTAL 9 PER AREA BN		
SUBTOTAL 18		
TOTAL 18 TRC_138		

EQUIP: TCC_72

BN: COMMAND OPS

NUMBER	COMPANY	REASON
0	HHC	
0	A CO	
0	B CO	
0	C CO	
SUBTOTAL 0		

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
2	A CO	ONE PER FSP
2	B CO	ONE PER FSP
2	C CO	ONE PER FSP
SUBTOTAL 6 PER AREA BN		
SUBTOTAL 12		
TOTAL 12 TCC_72		

EQUIP: TTC_39

BN: COMMAND OPS

	NUMBER	COMPANY	REASON
	0	HHC	
	0	A CO	
	0	B CO	
	0	C CO	
SUBTOTAL	0		

BN: AREA x 2

	NUMBER	COMPANY	REASON
	0	HHC	
	1	A CO	
	1	B CO	
	1	C CO	
SUBTOTAL	3	PER AREA BN	
SUBTOTAL	6		
TOTAL	6	TTC_39	

EQUIP: TYC_39

BN: COMMAND OPS

	NUMBER	COMPANY	REASON
	1	HHC	DISPLACEMENT CAPABILITY
	0	A CO	
	0	B CO	
	0	C CO	
SUBTOTAL	1		

BN: AREA x 2

	NUMBER	COMPANY	REASON
	1	HHC	SELECTED NODE MESSAGE SWITCH
	0	A CO	
	0	B CO	
	0	C CO	
SUBTOTAL	1	PER AREA BN	
SUBTOTAL	2		
TOTAL	3	TYC_39	

EQUIP: TRC_151

BN: COMMAND OPS

NUMBER	COMPANY	REASON
3	HHC	2 FOR TAC; 1 FOR TAC(J)
2	A CO	CORPS MAIN TO CASC
2	B CO	CORPS MAIN TO CASC
2	C CO	CORPS REAR TO CASC
9		

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
5	A CO	2 PER FSP;1 PER NODE
5	B CO	2 PER FSP;1 PER NODE
5	C CO	2 PER FSP;1 PER NODE
15	PER AREA BN	
30		
39	TRC_151	

EQUIP: TRC_152

BN: COMMAND OPS

NUMBER	COMPANY	REASON
2	HHC	RELAYS FOR TAC
4	A CO	2 RELAYS; 2 SPLIT TERM
4	B CO	2 RELAYS; 2 SPLIT TERM
5	C CO	2 RELAYS; 2 SPLIT TERM; RACO RELAY
15		

BN: AREA x 2

NUMBER	COMPANY	REASON
0	HHC	
5	A CO	1 PER FSP; 3 NODE PLT
5	B CO	1 PER FSP; 3 NODE PLT
5	C CO	1 PER FSP; 3 NODE PLT
15	PER AREA BN	
30		
45	TRC_152	

CORPS RATT NETS

03-Feb-85

	CMD NET#1	CMD NET#2	CMD NET#3	GLO NET
CORPS MAIN	1	1	1	1
CORPS MAIN(J)	1	1	1	
CORPS TAC CP	1	1		
MI GROUP	1			
DIV #1	1			
DIV #2	1			
ADJ CORPS	1			
LNO	1			
SPARE(DIV#3)	1			
MSL BN		1		
ACR		1		
ADA		1		
SEP BDE		1		
FA BDE #1		1		
FA BDE #2		1		
SIG BDE			1	
MP BDE			1	
AVN BDE			1	
ENG BDE			1	
COSCOM/REAR			1	
RACO			1	
AIRFIELD #1				1
AIRFIELD #2				1
TACC				1
SUBTOTALS	9	9	8	4

TOTAL 30

ANNEX H

OFFICER DISTRIBUTION

OFFICER DISTRIBUTION SUMMARY
NEW CORPS SIG BDE
=====PROPOSED ORGANIZATION=====

NEW CORPS SIG BDE

NEW CORPS SIG BDE

NEW CORPS

UPDATED 09-Mar-05

				BDE HQ SRC: 11482J590				COMMND OPS BN SRC: 11485J590										AREA BN SRC: 11415J590										AREA BN SRC: 11415J590									
				HHC				A CO		B CO		C CO		TOTALS				HHC		A CO		B CO		C CO		TOTALS				HHC		A CO		B CO		C CO		TOTALS	
RANK	GRADE	REQ	AUTH	REQ	AUTH	RANK		REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH	RANK		REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH	RANK		REQ	AUTH	REQ	AUTH	REQ	AUTH	REQ	AUTH	RANK
BG	07	1	0	1	0	BG										BG												BG										BG
COL	06	2	1	2	1	COL										COL												COL										COL
LTC	05	18	11	7	8	LTC		1	1					1	1	LTC		1	1							1	1	LTC		1	1							2	2	LTC
MAJ	04	28	28	14	14	MAJ		2	2					2	2	MAJ		2	2							2	2	MAJ		2	2							4	4	MAJ
CPT	03	46	46	19	19	CPT		6	6	1	1	1	1	1	1	9	9	CPT		6	6	1	1	1	1	1	1	9	9	CPT		6	6	1	1	1	1	1	1	19	16	CPT
LT	02	52	46	8	8	LT		2	2	4	4	4	4	4	4	14	14	LT		1	1	6	5	6	5	6	5	19	16	LT		1	1	6	5	6	5	6	5	6	6	LT
WO	WO	27	27	9	9	WO		6	6							6	6	WO		6	6							6	6	WO		6	6							6	6	WO
		158	151	52	51			17	17	5	5	5	5	5	5	32	32			16	16	7	6	7	6	7	6	37	34			16	16	7	6	7	6	7	6	34	34	

NOTES: The required column should reflect AL01.

NEW CORPS SIG BDE

SUMMARY OFF/WO DISTRIBUTION

=======PROPOSED ORGANIZATION========

UNIT	OFF REQ	OFF AUTH	WO REQ	WO AUTH	::	TOTALS REQ	TOTALS AUTH
SIG BDE HQ	43	42	9	9	::	52	51
COMMAND OPS BN	26	26	6	6	::	32	32
AREA BN	31	28	6	6	::	37	34
AREA BN	31	28	6	6	::	37	34
TOTALS	131	124	27	27	::	158	151
MAX ALLOWABLE	124	124	27	27	::	151	151
	7	0	0	0	::	7	0

****

ENLISTED STRENGTH

MAX ALLOWABLE	1778
TOTAL BDE STR	1929

APPENDIX 1

TOTAL CORPS SIGNAL BRIGADE OFFICERS

SORTED BY POSITION

TITLE	GRADE	RANK	158 REQ	151 AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-7	BG	1	0	HQ	BDE HQ	
BRIGADE CMDR/CORPS C-E OFF	O-6	COL	1	1	HQ	BDE HQ	25A
DEP BDE CDR	O-5	LTC	1	1	HQ	BDE HQ	25A
S-3	O-5	LTC	1	1	HQ	BDE HQ	25A
CHAPLAIN	O-5	LTC	1	1	HQ	BDE HQ	56A
S-1	O-5	LTC	1	1	HQ	BDE HQ	25A41
S-4	O-5	LTC	1	1	HQ	BDE HQ	72A25
STAFF JUDGE ADV	O-5	LTC	1	1	HQ	BDE HQ	55A
S-2	O-4	MAJ	1	1	HQ	BDE HQ	35A
CDR HHC	O-3	CPT	1	1	HQ	BDE HQ	25A
PERS STAFF OFF	O-4	MAJ	1	1	ADMIN	BDE HQ	41A
ADMIN OFF	O-3	CPT	1	1	ADMIN	BDE HQ	42A
C-E MATERIAL MGR	O-4	MAJ	1	1	LOG	BDE HQ	72A
MAINTENANCE STAFF OFF	O-3	CPT	1	1	LOG	BDE HQ	91A
STAFF MAINT TECH	WO	WO	1	1	LOG	BDE HQ	630E0
C-E REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	286A0
FOOD SERVICE TECH	WO	WO	1	1	LOG	BDE HQ	041A0
UNIT SUPPLY TECH	WO	WO	1	1	LOG	BDE HQ	761A0
ENGINEER REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	621A0
ASST CORPS C-E OFF	O-6	COL	1	0	CE	BDE HQ	25A
ASST CORPS C-E OFF	O-5	LTC	0	1	CE	BDE HQ	25A
OPS & PLANS OFF	O-5	LTC	1	1	CE	BDE HQ	25A
C-E STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
ELECT MAINT STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	27A72
RADIO FREQ ENG OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TEL/DIG COMM OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TELECOM CENTER OFF	O-3	CPT	1	1	CE	BDE HQ	25A
RADIO SYS OFF	O-3	CPT	1	1	CE	BDE HQ	25A
CORPS COMSEC OFF OF REC	WO	WO	1	1	CE	BDE HQ	290AL
C-E COMSEC STAFF TECH	WO	WO	1	1	CE	BDE HQ	290A0
CORPS COMSEC MAINT TECH	WO	WO	1	1	CE	BDE HQ	290AV
SYS ENG	O-4	MAJ	1	1	CEB	BDE HQ	27B
TRAFFIC ENG OFF	O-4	MAJ	1	1	CEB	BDE HQ	27B
SOFTWARE ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25B
TELECOM CENTER OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
COM SYS OFF	O-3	CPT	1	1	CEB	BDE HQ	27A
RAD FREQ ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TEL/DIG COMM OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TRAFFIC ENG	O-3	CPT	1	1	CEB	BDE HQ	27B
SIG BDE COMSEC TECH	WO	WO	1	1	CEB	BDE HQ	290AL
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SYSCON OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SOFTWARE ENG OFF	O-3	CPT	1	1	SCB	BDE HQ	25B
ASST SYSCON OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A

TEL/DIG OFF	O-3	CPT	1	1 SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1 SCB	BDE HQ	25A
PLANS OFF	O-4	MAJ	1	1 PIB	BDE HQ	25A
ASST PLANS OFF	O-3	CPT	1	1 PIB	BDE HQ	25A
SOFTWARE PLANS OFF	O-3	CPT	1	1 PIB	BDE HQ	25B
CHEMICAL OFF	O-4	MAJ	1	1 PIB	BDE HQ	74A
BN CDR	O-5	LTC	1	1 COB	HHC	25A
XO	O-4	MAJ	1	1 COB	HHC	25A
S-3	O-4	MAJ	1	1 COB	HHC	25A
CHAPLAIN	O-3	CPT	1	1 COB	HHC	56A
S-1	O-3	CPT	1	1 COB	HHC	25A41
SYSCON OFF	O-3	CPT	1	1 COB	HHC	25A
S-4	O-3	CPT	1	1 COB	HHC	25A72
BMO	O-3	CPT	1	1 COB	HHC	25A
HHC CDR	O-3	CPT	1	1 COB	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1 COB	HHC	25A
TAC CP PLT LDR	O-2	LT	1	1 COB	HHC	25A
TCC TECH(S-3)	WO	WO	1	1 COB	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1 COB	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1 COB	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1 COB	HHC	630A0
TYC-39 TECH	WO	WO	1	1 COB	HHC	290A0
PBO	WO	WO	1	1 COB	HHC	761A0
COMPANY CDR	O-3	CPT	1	1 COB	A CO	25A
XO/OPS OFF	O-2	LT	1	1 COB	A CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1 COB	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1 COB	A CO	25A
CABLE PLT LDR	O-2	LT	1	1 COB	A CO	25A
COMPANY CDR	O-3	CPT	1	1 COB	B CO	25A
XO/OPS OFF	O-2	LT	1	1 COB	B CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1 COB	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1 COB	B CO	25A
CABLE PLT LDR	O-2	LT	1	1 COB	B CO	25A
COMPANY CDR	O-3	CPT	1	1 COB	C CO	25A
XO/OPS OFF	O-2	LT	1	1 COB	C CO	25A
REAR OPS PLT LDR	O-2	LT	1	1 COB	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1 COB	C CO	25A
CABLE PLT LDR	O-2	LT	1	1 COB	C CO	25A
BN CDR	O-5	LTC	1	1 AREA BN1	HHC	25A
XO	O-4	MAJ	1	1 AREA BN1	HHC	25A
S-3	O-4	MAJ	1	1 AREA BN1	HHC	25A
CHAPLAIN	O-3	CPT	1	1 AREA BN1	HHC	56A
S-1	O-3	CPT	1	1 AREA BN1	HHC	25A41
SYSCON OFF	O-3	CPT	1	1 AREA BN1	HHC	25A
S-4	O-3	CPT	1	1 AREA BN1	HHC	25A72
BMO	O-3	CPT	1	1 AREA BN1	HHC	25A
HHC CDR	O-3	CPT	1	1 AREA BN1	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1 AREA BN1	HHC	25A
TCC TECH(S-3)	WO	WO	1	1 AREA BN1	HHC	290A0

COMSEC MAINT TECH	WO	WO	1	1	AREA BN1 HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA BN1 HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA BN1 HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA BN1 HHC	290A0
PBO	WO	WO	1	1	AREA BN1 HHC	761A0
COMP CDR	O-3	CPT	1	1	AREA BN1 A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1 A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1 A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1 A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1 A CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1 B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1 B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1 B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1 B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1 B CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1 C CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1 C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1 C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1 C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1 C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1 C CO	25A
BN CDR	O-5	LTC	1	1	AREA BN2 HHC	25A
XO	O-4	MAJ	1	1	AREA BN2 HHC	25A
S-3	O-4	MAJ	1	1	AREA BN2 HHC	25A
CHAPLAIN	O-3	CPT	1	1	AREA BN2 HHC	56A
S-1	O-3	CPT	1	1	AREA BN2 HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN2 HHC	25A
S-4	O-3	CPT	1	1	AREA BN2 HHC	25A72
BMO	O-3	CPT	1	1	AREA BN2 HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN2 HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN2 HHC	25A
TCC TECH(S-3)	WO	WO	1	1	AREA BN2 HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA BN2 HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA BN2 HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA BN2 HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA BN2 HHC	290A0
PBO	WO	WO	1	1	AREA BN2 HHC	761A0
COMP CDR	O-3	CPT	1	1	AREA BN2 A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN2 A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2 A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2 A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN2 A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN2 A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN2 A CO	25A

COMP CDR	0-3	CPT	1	1 AREA BN2 B CO	25A
XO/OPS OFF	0-2	LT	1	1 AREA BN2 B CO	25A
FORWARD SUP PLT LDR	0-2	LT	1	1 AREA BN2 B CO	25A
FORWARD SUP PLT LDR	0-2	LT	1	1 AREA BN2 B CO	25A
RECORD TRAFFIC PLT LDR	0-2	LT	1	1 AREA BN2 B CO	25A
NODE PLT LDR	0-2	LT	1	1 AREA BN2 B CO	25A
CABLE PLT LDR	0-2	LT	1	0 AREA BN2 B CO	25A
COMP CDR	0-3	CPT	1	1 AREA BN2 C CO	25A
XO/OPS OFF	0-2	LT	1	1 AREA BN2 C CO	25A
FORWARD SUP PLT LDR	0-2	LT	1	1 AREA BN2 C CO	25A
FORWARD SUP PLT LDR	0-2	LT	1	1 AREA BN2 C CO	25A
RECORD TRAFFIC PLT LDR	0-2	LT	1	1 AREA BN2 C CO	25A
NODE PLT LDR	0-2	LT	1	1 AREA BN2 C CO	25A
CABLE PLT LDR	0-2	LT	1	0 AREA BN2 C CO	25A

APPENDIX 2

TOTAL CORPS SIGNAL BRIGADE OFFICERS

SORTED BY RANK

			1	0			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-7	BG	1	0	HQ	BDE HQ	

			2	1			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-6	COL	1	1	HQ	BDE HQ	25A
ASST CORPS C-E OFF	O-6	COL	1	0	CE	BDE HQ	25A

			10	11			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
DEP BDE CDR	O-5	LTC	1	1	HQ	BDE HQ	25A
S-3	O-5	LTC	1	1	HQ	BDE HQ	25A
CHAPLAIN	O-5	LTC	1	1	HQ	BDE HQ	56A
S-1	O-5	LTC	1	1	HQ	BDE HQ	25A41
S-4	O-5	LTC	1	1	HQ	BDE HQ	72A25
STAFF JUDGE ADV	O-5	LTC	1	1	HQ	BDE HQ	55A
ASST CORPS C-E OFF	O-5	LTC	0	1	CE	BDE HQ	25A
OPS & PLANS OFF	O-5	LTC	1	1	CE	BDE HQ	25A
BN CDR	O-5	LTC	1	1	COB	HHC	25A
BN CDR	O-5	LTC	1	1	AREA BN1	HHC	25A
BN CDR	O-5	LTC	1	1	AREA BN2	HHC	25A

			20	20			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
S-2	O-4	MAJ	1	1	HQ	BDE HQ	35A
PERS STAFF OFF	O-4	MAJ	1	1	ADMIN	BDE HQ	41A
C-E MATERIAL MGR	O-4	MAJ	1	1	LOG	BDE HQ	72A
C-E STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
ELECT MAINT STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	27A72
RADIO FREQ ENG OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TEL/DIG COMM OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
SYS ENG	O-4	MAJ	1	1	CEB	BDE HQ	27B
TRAFFIC ENG OFF	O-4	MAJ	1	1	CEB	BDE HQ	27B
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SYSCON OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
PLANS OFF	O-4	MAJ	1	1	PIB	BDE HQ	25A
CHEMICAL OFF	O-4	MAJ	1	1	PIB	BDE HQ	74A
XO	O-4	MAJ	1	1	COB	HHC	25A
S-3	O-4	MAJ	1	1	COB	HHC	25A
XO	O-4	MAJ	1	1	AREA BN1	HHC	25A
S-3	O-4	MAJ	1	1	AREA BN1	HHC	25A
XO	O-4	MAJ	1	1	AREA BN2	HHC	25A
S-3	O-4	MAJ	1	1	AREA BN2	HHC	25A

			46	46			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
CDR HHC	O-3	CPT	1	1	HQ	BDE HQ	25A
ADMIN OFF	O-3	CPT	1	1	ADMIN	BDE HQ	42A
MAINTENANCE STAFF OFF	O-3	CPT	1	1	LOG	BDE HQ	91A
TELECOM CENTER OFF	O-3	CPT	1	1	CE	BDE HQ	25A
RADIO SYS OFF	O-3	CPT	1	1	CE	BDE HQ	25A
SOFTWARE ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25B
TELECOM CENTER OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
COM SYS OFF	O-3	CPT	1	1	CEB	BDE HQ	27A
RAD FREQ ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TEL/DIG COMM OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TRAFFIC ENG	O-3	CPT	1	1	CEB	BDE HQ	27B
SOFTWARE ENG OFF	O-3	CPT	1	1	SCB	BDE HQ	25B
ASST SYSCON OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
ASST PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25A
SOFTWARE PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25B
CHAPLAIN	O-3	CPT	1	1	COB	HHC	56A
S-1	O-3	CPT	1	1	COB	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	COB	HHC	25A
S-4	O-3	CPT	1	1	COB	HHC	25A72
BMO	O-3	CPT	1	1	COB	HHC	25A
HHC CDR	O-3	CPT	1	1	COB	HHC	25A
COMPANY CDR	O-3	CPT	1	1	COB	A CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	B CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	C CO	25A
CHAPLAIN	O-3	CPT	1	1	AREA BN1	HHC	56A
S-1	O-3	CPT	1	1	AREA BN1	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN1	HHC	25A
S-4	O-3	CPT	1	1	AREA BN1	HHC	25A72
BMO	O-3	CPT	1	1	AREA BN1	HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN1	HHC	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	A CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	B CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	C CO	25A
CHAPLAIN	O-3	CPT	1	1	AREA BN2	HHC	56A
S-1	O-3	CPT	1	1	AREA BN2	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN2	HHC	25A
S-4	O-3	CPT	1	1	AREA BN2	HHC	25A72
BMO	O-3	CPT	1	1	AREA BN2	HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN2	HHC	25A
COMP CDR	O-3	CPT	1	1	AREA BN2	A CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN2	B CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN2	C CO	25A

			52	46			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
TEL/DIG COMM OFF	O-2	LT	1	1	COB	HHC	25A
TAC CP PLT LDR	O-2	LT	1	1	COB	HHC	25A
XO/OPS OFF	O-2	LT	1	1	COB	A CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	A CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	A CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	B CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	B CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	B CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	C CO	25A
REAR OPS PLT LDR	O-2	LT	1	1	COB	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	C CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	C CO	25A
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN1	HHC	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	C CO	25A
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN2	HHC	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN2	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN2	A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN2	A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN2	A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN2	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN2	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN2	B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN2	B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN2	B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN2	C CO	25A

FORWARD SUP PLT LDR	O-2	LT	1	1	AREA	BN2	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA	BN2	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA	BN2	C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA	BN2	C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA	BN2	C CO	25A

			27	27			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
STAFF MAINT TECH	WO	WO	1	1	LOG	BDE HQ	630E0
C-E REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	286A0
FOOD SERVICE TECH	WO	WO	1	1	LOG	BDE HQ	041A0
UNIT SUPPLY TECH	WO	WO	1	1	LOG	BDE HQ	761A0
ENGINEER REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	621A0
CORPS COMSEC OFF OF REC	WO	WO	1	1	CE	BDE HQ	290AL
C-E COMSEC STAFF TECH	WO	WO	1	1	CE	BDE HQ	290A0
CORPS COMSEC MAINT TECH	WO	WO	1	1	CE	BDE HQ	290AV
SIG BDE COMSEC TECH	WO	WO	1	1	CEB	BDE HQ	290AL
TCC TECH(S-3)	WO	WO	1	1	COB	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	COB	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	COB	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	COB	HHC	630A0
TYC-39 TECH	WO	WO	1	1	COB	HHC	290A0
PBO	WO	WO	1	1	COB	HHC	761A0
TCC TECH(S-3)	WO	WO	1	1	AREA	BN1 HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA	BN1 HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA	BN1 HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA	BN1 HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA	BN1 HHC	290A0
PBO	WO	WO	1	1	AREA	BN1 HHC	761A0
TCC TECH(S-3)	WO	WO	1	1	AREA	BN2 HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA	BN2 HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA	BN2 HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA	BN2 HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA	BN2 HHC	290A0
PBO	WO	WO	1	1	AREA	BN2 HHC	761A0

APPENDIX 3

CORPS SIGNAL BRIGADE HEADQUARTERS

SORTED BY RANK/SECTION

TITLE	GRADE	RANK	S2 REQ	S1 AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-7	BG	1	0	HQ	BDE HQ	
BRIGADE CMDR/CORPS C-E OFF	O-6	COL	1	1	HQ	BDE HQ	25A
DEP BDE CDR	O-5	LTC	1	1	HQ	BDE HQ	25A
S-3	O-5	LTC	1	1	HQ	BDE HQ	25A
CHAPLAIN	O-5	LTC	1	1	HQ	BDE HQ	56A
S-1	O-5	LTC	1	1	HQ	BDE HQ	25A41
S-4	O-5	LTC	1	1	HQ	BDE HQ	72A25
STAFF JUDGE ADV	O-5	LTC	1	1	HQ	BDE HQ	55A
S-2	O-4	MAJ	1	1	HQ	BDE HQ	35A
CDR HHC	O-3	CPT	1	1	HQ	BDE HQ	25A
PERS STAFF OFF	O-4	MAJ	1	1	ADMIN	BDE HQ	41A
ADMIN OFF	O-3	CPT	1	1	ADMIN	BDE HQ	42A
C-E MATERIAL MGR	O-4	MAJ	1	1	LOG	BDE HQ	72A
MAINTENANCE STAFF OFF	O-3	CPT	1	1	LOG	BDE HQ	91A
STAFF MAINT TECH	WO	WO	1	1	LOG	BDE HQ	630E0
C-E REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	286A0
FOOD SERVICE TECH	WO	WO	1	1	LOG	BDE HQ	041A0
UNIT SUPPLY TECH	WO	WO	1	1	LOG	BDE HQ	761A0
ENGINEER REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	621A0
ASST CORPS C-E OFF	O-6	COL	1	0	CE	BDE HQ	25A
ASST CORPS C-E OFF	O-5	LTC	0	1	CE	BDE HQ	25A
OPS & PLANS OFF	O-5	LTC	1	1	CE	BDE HQ	25A
C-E STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
ELECT MAINT STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	27A72
RADIO FREQ ENG OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TEL/DIG COMM OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TELECOM CENTER OFF	O-3	CPT	1	1	CE	BDE HQ	25A
RADIO SYS OFF	O-3	CPT	1	1	CE	BDE HQ	25A
CORPS COMSEC OFF OF REC	WO	WO	1	1	CE	BDE HQ	290AL
C-E COMSEC STAFF TECH	WO	WO	1	1	CE	BDE HQ	290A0
CORPS COMSEC MAINT TECH	WO	WO	1	1	CE	BDE HQ	290AV
SYS ENG	O-4	MAJ	1	1	CEB	BDE HQ	27B
TRAFFIC ENG OFF	O-4	MAJ	1	1	CEB	BDE HQ	27B
SOFTWARE ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25B
TELECOM CENTER OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
COM SYS OFF	O-3	CPT	1	1	CEB	BDE HQ	27A
RAD FREQ ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TEL/DIG COMM OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TRAFFIC ENG	O-3	CPT	1	1	CEB	BDE HQ	27B
SIG BDE COMSEC TECH	WO	WO	1	1	CEB	BDE HQ	290AL
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SYSCON OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SOFTWARE ENG OFF	O-3	CPT	1	1	SCB	BDE HQ	25B
ASST SYSCON OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A

TEL/DIG OFF	O-3	CPT	1	1 SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1 SCB	BDE HQ	25A
PLANS OFF	O-4	MAJ	1	1 PIB	BDE HQ	25A
ASST PLANS OFF	O-3	CPT	1	1 PIB	BDE HQ	25A
SOFTWARE PLANS OFF	O-3	CPT	1	1 PIB	BDE HQ	25B
CHEMICAL OFF	O-4	MAJ	1	1 PIB	BDE HQ	74A

			1	0			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-7	BG	1	0	HQ	BDE HQ	

			2	1			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-6	COL	1	1	HQ	BDE HQ	25A
ASST CORPS C-E OFF	O-6	COL	1	0	CE	BDE HQ	25A

			7	8			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
DEP BDE CDR	O-5	LTC	1	1	HQ	BDE HQ	25A
S-3	O-5	LTC	1	1	HQ	BDE HQ	25A
CHAPLAIN	O-5	LTC	1	1	HQ	BDE HQ	56A
S-1	O-5	LTC	1	1	HQ	BDE HQ	25A41
S-4	O-5	LTC	1	1	HQ	BDE HQ	72A25
STAFF JUDGE ADV	O-5	LTC	1	1	HQ	BDE HQ	55A
ASST CORPS C-E OFF	O-5	LTC	0	1	CE	BDE HQ	25A
OPS & PLANS OFF	O-5	LTC	1	1	CE	BDE HQ	25A

			14	14			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
S-2	O-4	MAJ	1	1	HQ	BDE HQ	35A
PERS STAFF OFF	O-4	MAJ	1	1	ADMIN	BDE HQ	41A
C-E MATERIAL MGR	O-4	MAJ	1	1	LOG	BDE HQ	72A
C-E STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
ELECT MAINT STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	27A72
RADIO FREQ ENG OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TEL/DIG COMM OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
SYS ENG	O-4	MAJ	1	1	CEB	BDE HQ	27B
TRAFFIC ENG OFF	O-4	MAJ	1	1	CEB	BDE HQ	27B
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SYSCON OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
PLANS OFF	O-4	MAJ	1	1	PIB	BDE HQ	25A
CHEMICAL OFF	O-4	MAJ	1	1	PIB	BDE HQ	74A

			19	19			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
CDR HHC	O-3	CPT	1	1	HQ	BDE HQ	25A
ADMIN OFF	O-3	CPT	1	1	ADMIN	BDE HQ	42A
MAINTENANCE STAFF OFF	O-3	CPT	1	1	LOG	BDE HQ	91A
TELECOM CENTER OFF	O-3	CPT	1	1	CE	BDE HQ	25A
RADIO SYS OFF	O-3	CPT	1	1	CE	BDE HQ	25A
SOFTWARE ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25B

TELECOM CENTER OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
COM SYS OFF	O-3	CPT	1	1	CEB	BDE HQ	27A
RAD FREQ ENG OFF	O-3	CPT	1	1	CEB	BDE HQ.	25A
TEL/DIG COMM OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TRAFFIC ENG	O-3	CPT	1	1	CEB	BDE HQ	27B
SOFTWARE ENG OFF	O-3	CPT	1	1	SCB	BDE HQ	25B
ASST SYSCON OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
ASST PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25A
SOFTWARE PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25B

			9	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
STAFF MAINT TECH	WO	WO	1	1	LOG	BDE HQ	630E0
C-E REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	286A0
FOOD SERVICE TECH	WO	WO	1	1	LOG	BDE HQ	041A0
UNIT SUPPLY TECH	WO	WO	1	1	LOG	BDE HQ	761A0
ENGINEER REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	621A0
CORPS COMSEC OFF OF REC	WO	WO	1	1	CE	BDE HQ	290AL
C-E COMSEC STAFF TECH	WO	WO	1	1	CE	BDE HQ	290A0
CORPS COMSEC MAINT TECH	WO	WO	1	1	CE	BDE HQ	290AV
SIG BDE COMSEC TECH	WO	WO	1	1	CEB	BDE HQ	290AL

			10	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BRIGADE CMDR/CORPS C-E OFF	O-7	BG	1	0	HQ	BDE HQ	
BRIGADE CMDR/CORPS C-E OFF	O-6	COL	1	1	HQ	BDE HQ	25A
DEP BDE CDR	O-5	LTC	1	1	HQ	BDE HQ	25A
S-3	O-5	LTC	1	1	HQ	BDE HQ	25A
CHAPLAIN	O-5	LTC	1	1	HQ	BDE HQ	56A
S-1	O-5	LTC	1	1	HQ	BDE HQ	25A41
S-4	O-5	LTC	1	1	HQ	BDE HQ	72A25
STAFF JUDGE ADV	O-5	LTC	1	1	HQ	BDE HQ	55A
S-2	O-4	MAJ	1	1	HQ	BDE HQ	35A
CDR HHC	O-3	CPT	1	1	HQ	BDE HQ	25A

			2	2			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
PERS STAFF OFF	O-4	MAJ	1	1	ADMIN	BDE HQ	41A
ADMIN OFF	O-3	CPT	1	1	ADMIN	BDE HQ	42A

			7	7			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
C-E MATERIAL MGR	O-4	MAJ	1	1	LOG	BDE HQ	72A
MAINTENANCE STAFF OFF	O-3	CPT	1	1	LOG	BDE HQ	91A
STAFF MAINT TECH	WO	WO	1	1	LOG	BDE HQ	630E0
C-E REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	286A0
FOOD SERVICE TECH	WO	WO	1	1	LOG	BDE HQ	041A0
UNIT SUPPLY TECH	WO	WO	1	1	LOG	BDE HQ	761A0
ENGINEER REPAIR TECH	WO	WO	1	1	LOG	BDE HQ	621A0

			11	11			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
ASST CORPS C-E OFF	O-6	COL	1	0	CE	BDE HQ	25A
ASST CORPS C-E OFF	O-5	LTC	0	1	CE	BDE HQ	25A
OPS & PLANS OFF	O-5	LTC	1	1	CE	BDE HQ	25A
C-E STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
ELECT MAINT STAFF OFF	O-4	MAJ	1	1	CE	BDE HQ	27A72
RADIO FREQ ENG OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TEL/DIG COMM OFF	O-4	MAJ	1	1	CE	BDE HQ	25A
TELECOM CENTER OFF	O-3	CPT	1	1	CE	BDE HQ	25A
RADIO SYS OFF	O-3	CPT	1	1	CE	BDE HQ	25A
CORPS COMSEC OFF OF REC	WO	WO	1	1	CE	BDE HQ	290AL
C-E COMSEC STAFF TECH	WO	WO	1	1	CE	BDE HQ	290A0
CORPS COMSEC MAINT TECH	WO	WO	1	1	CE	BDE HQ	290AV

			9	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
SYS ENG	O-4	MAJ	1	1	CEB	BDE HQ	27B
TRAFFIC ENG OFF	O-4	MAJ	1	1	CEB	BDE HQ	27B
SOFTWARE ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25B
TELECOM CENTER OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
COM SYS OFF	O-3	CPT	1	1	CEB	BDE HQ	27A
RAD FREQ ENG OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TEL/DIG COMM OFF	O-3	CPT	1	1	CEB	BDE HQ	25A
TRAFFIC ENG	O-3	CPT	1	1	CEB	BDE HQ	27B
SIG BDE COMSEC TECH	WO	WO	1	1	CEB	BDE HQ	290AL

			9	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
OPNS OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SYSCON OFF	O-4	MAJ	1	1	SCB	BDE HQ	25A
SOFTWARE ENG OFF	O-3	CPT	1	1	SCB	BDE HQ	25B
ASST SYSCON OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
RADIO RELAY	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A
TEL/DIG OFF	O-3	CPT	1	1	SCB	BDE HQ	25A

			4	4			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
PLANS OFF	O-4	MAJ	1	1	PIB	BDE HQ	25A
ASST PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25A
SOFTWARE PLANS OFF	O-3	CPT	1	1	PIB	BDE HQ	25B
CHEMICAL OFF	O-4	MAJ	1	1	PIB	BDE HQ	74A

APPENDIX 4

COMMAND OPERATIONS SIGNAL BATTALION

SORTED BY RANK/COMPANY

TITLE	GRADE	RANK	32 REQ	32 AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	COB	HHC	25A
XO	O-4	MAJ	1	1	COB	HHC	25A
S-3	O-4	MAJ	1	1	COB	HHC	25A
CHAPLAIN	O-3	CPT	1	1	COB	HHC	56A
S-1	O-3	CPT	1	1	COB	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	COB	HHC	25A
S-4	O-3	CPT	1	1	COB	HHC	25A72
BMO	O-3	CPT	1	1	COB	HHC	25A
HHC CDR	O-3	CPT	1	1	COB	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1	COB	HHC	25A
TAC CP PLT LDR	O-2	LT	1	1	COB	HHC	25A
TCC TECH(S-3)	WO	WO	1	1	COB	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	COB	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	COB	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	COB	HHC	630A0
TYC-39 TECH	WO	WO	1	1	COB	HHC	290A0
PBO	WO	WO	1	1	COB	HHC	761A0
COMPANY CDR	O-3	CPT	1	1	COB	A CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	A CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	A CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	A CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	B CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	B CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	B CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	B CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	C CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	C CO	25A
REAR OPS PLT LDR	O-2	LT	1	1	COB	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	C CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	C CO	25A

			1	1			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	COB	HHC	25A

			2	2			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
XO	O-4	MAJ	1	1	COB	HHC	25A
S-3	O-4	MAJ	1	1	COB	HHC	25A

			9	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
CHAPLAIN	O-3	CPT	1	1	COB	HHC	56A
S-1	O-3	CPT	1	1	COB	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	COB	HHC	25A
S-4	O-3	CPT	1	1	COB	HHC	25A72
BMO	O-3	CPT	1	1	COB	HHC	25A
HHC CDR	O-3	CPT	1	1	COB	HHC	25A
COMPANY CDR	O-3	CPT	1	1	COB	A CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	B CO	25A
COMPANY CDR	O-3	CPT	1	1	COB	C CO	25A

			14	14			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
TEL/DIG COMM OFF	O-2	LT	1	1	COB	HHC	25A
TAC CP PLT LDR	O-2	LT	1	1	COB	HHC	25A
XO/OPS OFF	O-2	LT	1	1	COB	A CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	A CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	A CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	B CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	B CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	B CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	C CO	25A
REAR OPS PLT LDR	O-2	LT	1	1	COB	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	C CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	C CO	25A

			6	6			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
TCC TECH(S-3)	WO	WO	1	1	COB	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	COB	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	COB	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	COB	HHC	630A0
TYC-39 TECH	WO	WO	1	1	COB	HHC	290A0
PBO	WO	WO	1	1	COB	HHC	761A0

			17	17			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	COB	HHC	25A
XO	O-4	MAJ	1	1	COB	HHC	25A
S-3	O-4	MAJ	1	1	COB	HHC	25A
CHAPLAIN	O-3	CPT	1	1	COB	HHC	56A
S-1	O-3	CPT	1	1	COB	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	COB	HHC	25A
S-4	O-3	CPT	1	1	COB	HHC	25A72
BMO	O-3	CPT	1	1	COB	HHC	25A
HHC CDR	O-3	CPT	1	1	COB	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1	COB	HHC	25A
TAC CP PLT LDR	O-2	LT	1	1	COB	HHC	25A
TCC TECH(S-3)	WO	WO	1	1	COB	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	COB	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	COB	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	COB	HHC	630A0
TYC-39 TECH	WO	WO	1	1	COB	HHC	290A0
PBO	WO	WO	1	1	COB	HHC	761A0

			5	5			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
COMPANY CDR	O-3	CPT	1	1	COB	A CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	A CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	A CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	A CO	25A

			5	5			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
COMPANY CDR	O-3	CPT	1	1	COB	B CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	B CO	25A
MAIN OPS PLT LDR	O-2	LT	1	1	COB	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	B CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	B CO	25A

			5	5			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
COMPANY CDR	O-3	CPT	1	1	COB	C CO	25A
XO/OPS OFF	O-2	LT	1	1	COB	C CO	25A
REAR OPS PLT LDR	O-2	LT	1	1	COB	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	COB	C CO	25A
CABLE PLT LDR	O-2	LT	1	1	COB	C CO	25A

APPENDIX 5

AREA SIGNAL BATTALION OFFICERS

SORTED BY RANK/COMPANY

			37	34			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	AREA BN1	HHC	25A
XO	O-4	MAJ	1	1	AREA BN1	HHC	25A
S-3	O-4	MAJ	1	1	AREA BN1	HHC	25A
CHAPLAIN	O-3	CPT	1	1	AREA BN1	HHC	56A
S-1	O-3	CPT	1	1	AREA BN1	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN1	HHC	25A
S-4	O-3	CPT	1	1	AREA BN1	HHC	25A72
BMO	O-3	CPT	1	1	AREA BN1	HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN1	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN1	HHC	25A
TCC TECH(S-3)	WO	WO	1	1	AREA BN1	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA BN1	HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA BN1	HHC	290A0
PBO	WO	WO	1	1	AREA BN1	HHC	761A0
COMP CDR	O-3	CPT	1	1	AREA BN1	A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	A CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	B CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	C CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	C CO	25A

			1	1			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	AREA BN1	HHC	25A

			2	2			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
XO	O-4	MAJ	1	1	AREA BN1	HHC	25A
S-3	O-4	MAJ	1	1	AREA BN1	HHC	25A

			9	9			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
CHAPLAIN	O-3	CPT	1	1	AREA BN1	HHC	56A
S-1	O-3	CPT	1	1	AREA BN1	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN1	HHC	25A
S-4	O-3	CPT	1	1	AREA BN1	HHC	25A72
BMO	O-3	CPT	1	1	AREA BN1	HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN1	HHC	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	A CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	B CO	25A
COMP CDR	O-3	CPT	1	1	AREA BN1	C CO	25A

			19	16			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN1	HHC	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	C CO	25A

TITLE	GRADE	RANK	6 REQ	6 AUTH	UNIT	COMPANY	MOS
TCC TECH(S-3)	WO	WO	1	1	AREA BN1	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	236A0
MOTOR/POWER TECH	WO	WO	1	1	AREA BN1	HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA BN1	HHC	290A0
PBO	WO	WO	1	1	AREA BN1	HHC	761A0

			16	16			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
BN CDR	O-5	LTC	1	1	AREA BN1	HHC	25A
XO	O-4	MAJ	1	1	AREA BN1	HHC	25A
S-3	O-4	MAJ	1	1	AREA BN1	HHC	25A
CHAPLAIN	O-3	CPT	1	1	AREA BN1	HHC	56A
S-1	O-3	CPT	1	1	AREA BN1	HHC	25A41
SYSCON OFF	O-3	CPT	1	1	AREA BN1	HHC	25A
S-4	O-3	CPT	1	1	AREA BN1	HHC	25A72
BMO	O-3	CPT	1	1	AREA BN1	HHC	25A
HHC CDR	O-3	CPT	1	1	AREA BN1	HHC	25A
TEL/DIG COMM OFF	O-2	LT	1	1	AREA BN1	HHC	25A
TCC TECH(S-3)	WO	WO	1	1	AREA BN1	HHC	290A0
COMSEC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	290AV
ELECTRONIC MAINT TECH	WO	WO	1	1	AREA BN1	HHC	286A0
MOTOR/POWER TECH	WO	WO	1	1	AREA BN1	HHC	630A0
TYC-39 TECH	WO	WO	1	1	AREA BN1	HHC	290A0
PBO	WO	WO	1	1	AREA BN1	HHC	761A0

			7	6			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
COMP CDR	O-3	CPT	1	1	AREA BN1	A CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	A CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	A CO	25A

			7	6			
TITLE	GRADE	RANK	REQ	AUTH	UNIT	COMPANY	MOS
COMP CDR	O-3	CPT	1	1	AREA BN1	B CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	B CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	B CO	25A

TITLE	GRADE	RANK	REQ (7)	AUTH (6)	UNIT	COMPANY	MOS
COMP CDR	O-3	CPT	1	1	AREA BN1	C CO	25A
XO/OPS OFF	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
FORWARD SUP PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
RECORD TRAFFIC PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
NODE PLT LDR	O-2	LT	1	1	AREA BN1	C CO	25A
CABLE PLT LDR	O-2	LT	1	0	AREA BN1	C CO	25A

ANNEX I

V and VII CORPS ISSUES

ANNEX I: V Corps and VII Corps Issues (Discussed at Joint Meeting with Representatives from USAREUR/V Corps/VII Corps/Signal School/Study Group on 18 Jan 1985)

1. ISSUE: Both Corps Signal Brigades must have identical TOE/MTOE documents; however, the 93rd Signal Brigade currently has an Augmentation Platoon to support a NATO mission which is not required in V Corps.

RESOLUTION: The NATO Augmentation Platoon will continue to be handled separately from the basic brigade organizational structure and will not be included in the identical personnel ceilings established for each Corps Signal Brigade.

ACTION: USAREUR in coordination with V and VII Corps.

2. ISSUE: Both brigades are currently resourced at authorization level-3 yet new living TOE documents must be constructed at Level-1. If Brigades are reorganized under established ceilings which will be labeled "Level-1", a false picture of wartime capability will be presented since actual requirements are several hundred personnel higher than those allowed under peacetime ceilings. There is great concern that the constrained "Level-1" authorizations may be decremented in future years, resulting in a Brigade structure which would be severely under-resourced.

RESOLUTION: Brigade should be reorganized under existing ceilings as a Level-3 unit and TOE/MTOE documents must clearly indicate

that fact. If the new TOE/MTOE documents must reflect the unit(s) at an artificial or constrained Level-1, then the documents must explain in detail the true wartime requirements, either in the narrative or in the notes on each document.

ACTION: Signal School in coordination with TRADOC and HQ DA.

3. ISSUE: Action is under way at VII Corps which might lead to the consolidation of unit Property Book Officers (PBO's) at Brigade level. A potential implementation date is not known at this time.

RESOLUTION: Since both Brigade TOE/MTOE documents must be identical, PBO's and associated personnel/equipment will remain at Battalion level in the transitional TOE/MTOE document, unless otherwise directed by HQ DA. Subsequent decision to locally consolidate PBO's in VII Corps will not impact the TOE/MTOE documents.

ACTION: None required unless consolidation for both Corps is directed by HQ DA prior to approval of transitional TOE/MTOE documents.

4. ISSUE: Preliminary distribution of AN/TRC-151 multi-channel terminals within the Brigade, as initially proposed by the study group, does not take into consideration operational requirements of the 93rd Signal Brigade. The 93rd Signal Brigade proposes to remove 12 of 15 terminals tentatively placed in Command Operations Battalion and distribute them equally

among the two Area Battalions. V Corps (22nd Signal Brigade) agrees with initial distribution of 15 terminals in the Command Operations Battalion.

RESOLUTION: Six of the terminals will be removed from the Command Operations Battalion and distributed equally to the two Area Battalions (1 per Area Company). Nine AN/TRC-151's will remain in the Command Operations Battalion. This solution satisfies requirements in both Brigades.

ACTION: Issue resolved.

5. ISSUE: Each Brigade has requirements for towers although current authorizations and on-hand amounts differ between Corps. Some towers will be required by both Brigades.

RESOLUTION: Each Brigade will be authorized 12 each AB-585 towers and 4 each AB-216 towers. Although this appears to be a plus-up in equipment numbers, it actually represents a correction of an administrative error since previous MTOE changes inadvertently removed these tower authorizations. Additional towers will have to be obtained if shortages exist upon reorganization.

ACTION: Signal School in coordination with AMC and HQ DA.

6. ISSUE: AN/TRC-112 Tropospheric Scatter (TROPO) Terminals presently authorized and on-hand in both brigades are not used due to terrain difficulties encountered in both Corps areas. Although the 93rd Brigade thinks they may have some limited utility for lateral Corps systems during wartime, both brigades

agree that they should be dropped from the new TOE/MTOE and turned in. The point was made that they will be replaced eventually by Satellite Terminal equipment, although that will not occur until sometime after the 1 Oct 86 reorganization implementation date.

RESOLUTION: TROPO Terminals will be left in the reorganization TOE/MTOE documents for use as a trade-off when the new satellite equipment is fielded, unless additional bill payers are needed now to keep within personnel ceilings.

ACTION: Signal School to determine actual/projected fielding date of the satellite terminals.

7. ISSUE: Differing amounts of Radio Teletype (RATT) terminals exist in each Brigade. 22nd Signal Brigade has 7 each GRC-142's and 33 each GRC-122's, while 93rd Signal Brigade has 8 each GRC-142's and 32 each GRC-122's. Utilization of RATT varies in each Corps although it is under-utilized in both areas. RATT vans and teams are prime candidates for elimination as bill payers for proposed organizational changes.

RESOLUTION: AN/GRC-142's will be deleted from both Brigades for use as bill payers. After further discussion, it was determined that V Corps minimum requirements for GRC-122's were five less than VII Corps minimum requirements (25 vs 30). To equalize the numbers between Brigades, both will be authorized 30 each AN/GRC-122's. The remainder will be deleted (3 in 22nd Bde and 2 in 93rd Bde) for use as bill payers.

ACTION: None required.

8. ISSUE: A variety of power generator sets are authorized and on-hand in both brigades. Some of these are components while others are carried on the TOE/MTOE documents as end items. In many cases, prime movers for each set are not now identified on existing documents. Additionally, the need exists for at least two 60KW generators to be located at each Signal Center or Signal Node.

RESOLUTION: Each Area Signal Company and each of the three companies in the Command Operations Battalion will be authorized one MJQ-12 (2-60KW generators) in addition to those generators identified as components for other authorized equipment items. Prime movers will also be identified for these 60KW generator sets.

ACTION: Signal School in coordination with Study Group

9. ISSUE: Each Corps has two AN/TYC-16's on hand. This is a unique Automated Staff Message facility fielded only in Europe (total of six made: 2-each Corps Brigade and 2 in 72nd Sig Bn to support USAREUR HQ). These items should be authorized on the new TOE/MTOE. A LIN Number (Z08212) is already assigned.

RESOLUTION: Two each An/TYC-16's will be authorized in each Command Operations Battalion.

ACTION: Signal School

10. ISSUE: Two An/TTC-41(V)2 switch boards should be authorized on the TOE/MTOE of the Command Operations Battalion in each Brigade. The TTC-41 will be used at the TAC CP location. This item is presently authorized in para 110 of the existing Command Operations Battion, but both units have the AN/TTC-35 issued in lieu of (ILO) the preferred item.

RESOLUTION: New TOE/MTOE for each Command Operations Battalion will contain authorization for two AN/TTC-41(V)2 and the on-hand TTC-35's will be used ILO the TTC-41's. AN/TTC-41's will not be available for issue to the Brigades in the foreseeable future.

ACTION: None required.

11. ISSUE: Each Brigade will receive two each AN/ MSC-64 satellite terminals and two each AN/MRC-179 HF terminals during the next two years. These vans satisfy a special emergency action requirement at the Corps HQs. The MSC-64 will operate in the Flaming Arrow Net and the MRC-179 in the Regency Net.

RESOLUTION: Since these items will be received at or soon after E-Date of 1 Oct 86, they should be included in the new TOE/MTOE unless HQ DA directs otherwise. It was agreed that these items should be placed in a separate section on the Command Operations Battalion document due to their real world, 24-hours a day

mission.

ACTION: Signal School

12. ISSUE:Each signal center or node in the brigade should contain an AN/TSQ-84 to control the automatic switch at that location; however, initial fielding years ago in conjunction with the AN/TTC-38 switch resulted in a shortfall of these tech controls. Each Brigade has 9 Nodes yet only 6 AN/TSQ-84's are on-hand. A combination of SB-675's and TSC-76's have been issued in lieu of to make up the difference. Additionally, either through oversight or error, additional AN/TSQ-84's are not being provided concurrent with the fielding of the new AN/TTC-39 switches. Since 9 automatic switches are planned for each Brigade, there is a shortfall of 6 AN/TSQ-84's, three per Brigade.

RESOLUTION: Nine AN/TSQ-84's are required and should be authorized each Brigade. On-hand SB-675's and TSC-76's can be used in lieu of (ILO) in the interim until additional TSQ-84's can be obtained. Recommended solution is to obtain approval to redistribute TSQ-84's (from 16th Sig Bn or some other source) to correct this error.

ACTION: Signal School in coordination with HQ DA

13. ISSUE: Each Corps should be authorized an additional colonel (06) to head up the Corps C-E Section. At present, only the Brigade Commander position is authorized at the Colonel (06) level since previous MTOE changes, for whatever reason, downgraded the

RESOLUTION: The Corps C-E position will be shown as required at the Colonel (06) level on the new Brigade TOE/MTOE to meet wartime requirements, but it will not be authorized during peacetime.

ACTION: Signal School

14. ISSUE: Old communication center equipment (TGC-30/MGC-19/MGC-17) and switchboard equipment (MTC-1) should be deleted from new TOE/MTOE. Although 22nd Sig Bde currently uses the TGC-30 at the TAC CP, it was agreed that a TSC-58 could be used, which would allow deletion of this one of a kind item.

RESOLUTION: Delete this equipment and use spaces as the first bill payers to support other changes or increase on the new documents.

ACTION: Signal School in coordination with Study Group

15. ISSUE: C-E Maintenance Technician (286A) in the Signal Brigade S-4 section is not ADP system qualified, yet many automated C-E items are being fielded in both Corps. The suggestion was made to substitute a 287A warrant officer in the Brigade S-4 section since 287A's are both C-E maintenance and ADP repair trained.

RESOLUTION: Substitution of a 287A will be deferred pending research to determine if all 287A's have a C-E maintenance background and if sufficient personnel assets exist to fill

these spaces.
ACTION: Signal School in coordination with MILPERCEN

16. ISSUE: Both Brigades desire a 32Z supervisor in each C-E (E6) Maintenance Shop. Current TOE/MTOE documents authorize a 31E supervisor.

RESOLUTION: A 32Z supervisor will be authorized if the position can be supported at the E-7 grade level. If grade E-7 cannot be supported, then an exception to Standard of Grade Requirements wil be pursued.

ACTION: Signal School

17. ISSUE: The density of power generator units throughout the brigade area and their importance to system reliability supports a brigade requirement for one Engineer Equipment Repair Technician (621A) in each Brigade S-4 Section.

RESOLUTION: Authorize one 621A in each Brigade to supervise power unit maintenance.

ACTION: Signal School

18. ISSUE: Signal companies in the Area Battalions and in the Command Operations Battalions (Total of 9 per Brigade) are deployed over hundreds of square kilometers, a situation which demands that adequate troop feeding facilities be authorized in each unit. Each Company's mess capability would be greatly enhanced if a Mobile Kitchen Facility could be authorized.

RESOLUTION: Signal School will support authorization of one mobile feeding facility in each line company.

ACTION: Signal School in coordination with TRADOC and HQ DA

19. ISSUE: A mobility shortfall in both brigades hampers Corps command and control. Insufficient trucks are available to transport all perpsonnel, cable, wire, towers, spare parts and other critical items needed to make the communication system work. Since companies are deployed throughout several hundred square kilometers, adequate transport is a critical issue. Failure to authorize sufficient mobility assets in each Corps Signal Brigade directly impacts on the Corps Commander's ability to exercise command and control.

RESOLUTION: Authorize sufficient trucks on the new TOE/MTOE documents.

ACTION: Signal School in coordination with TRADOC and AMC

20. ISSUE: An excessive quantity of Digital Secure Voice Terminals (DSVT/KY-68) are being assigned to each Signal Brigade. Based on the proposed distribution of AN/TTC-39 switch boards, 22nd Signal Brigade recommends that only 10 DSVT's be authorized per each AN/TTC-39 switch. This minimum number of DSVT's would be used to satisfy unique secure voice requirements of selected subscribers.

RESOLUTION: Reduction in the quantity of DSVT's will be

investigated by the Signal School.

ACTION: Signal School

21. ISSUE: FM radios mounted and used in multi-channel relay and terminal vans must be authorized separately in the same paragraph of the TOE/MTOE that the multi-channel van is listed. These FM radios are used to engineer and control multi-channel system installation and restoration and both Corps Signal Brigades stressed the importance of their use in the European environment.

RESOLUTION: Ensure FM radios are properly authorized in TOE/MTOE documents.

ACTION: Signal School

22. ISSUE: Corps Signal Brigade units will be dispersed over hundreds of square kilometers and a means to rapidly reconstitute mobile C-E assets is a must if the communications system is to be responsive to the Corps Commander's Command and Control needs. The organic ability to recover and transfer vehicles, trailer mounted generators and communications vans must be given to each company-size element.

RESOLUTION: Twelve each 5-ton wreckers should be authorized each Corps Signal Brigade to be allocated one per signal company and one to each Battalion HHC.

ACTION: Signal School in coordination with TRADOC and AMC

23. ISSUE: Dispersed Corps Signal Brigade units must have an organic capability to distribute, transport and store large quantities of petroleum fuels. Each signal company should have its own 5-ton tank and pump unit with trailer. Additionally, each Battalion HHC should have an identical capability for distribution purposes.

RESOLUTION: Twelve tank and pump units with trailer should be authorized each Corps Signal Brigade to be allocated one per each signal company and one per each Battalion HHC.

ACTION: Signal School in coordination with TRADOC and AMC

ANNEX J

MILESTONES

MILESTONES CORPS SIGNAL BRIGADE TOE

AS OF:
11-Mar-85

DATE	EVENT	REMARKS
07-Feb-85	DEVELOP ORG CONCEPT PLAN	AWC/SIG CEN
07-Feb-85	DEVELOP URS UNIT REF SHEETS	SIG CEN
20-Feb-85	SECT III NARRATIVE DISCUSSION	AWC/SIG CEN
20-Feb-85	SECT I MISSION/CAP	AWC/SIG CEN
20-Feb-85	SECT II PERSONNEL & EQUIP	AWC/SIG CEN
20-Feb-85	DRAFT TOE DEVELOPMENT	SIG CEN
04-Mar-85	III CORPS REVIEW	AWC
04-Mar-85	PRE-BRIEF TRADOC	AWC
15-Apr-85	AREA OF INTEREST REVIEW(AOI)	US MAIL
01-May-85	AOI BACK TO SIGNAL SCHOOL	PROPONENTS
06-May-85	AOI USAREUR BACK TO SIG SCH	USAEUR
06-May-85	MINI REVIEW BOARD	SIG CEN/USAREUR
07-May-85	MINI REVIEW BOARD	SIG CEN/USAREUR
08-May-85	MINI REVIEW BOARD	SIG CEN/USAREUR
15-Jun-85	DRAFT TOE TO TRADOC	SIG CEN
09-Jul-85	TRADOC TOE REVIEW BOARD	TRADOC/SIG CEN
10-Jul-85	TRADOC TOE REVIEW BOARD	TRADOC/SIG CEN
11-Jul-85	TRADOC TOE REVIEW BOARD	TRADOC/SIG CEN
12-Jul-85	TRADOC TOE REVIEW BOARD	TRADOC/SIG CEN
26-Jul-85	TRADOC FWD TOE TO DA	TRADOC
TBD	DA/USAREUR/TRADOC CTU UPDATE	DA/TRADOC/USAREUR
TBD	DA/USAREUR/TRADOC CTU UPDATE	DA/TRADOC/USAREUR

ANNEX K

COORDINATION

ANNEX K: Coordination

This annex provides a list of key personnel in USAREUR who have been briefed on the operational and organization concepts presented in this plan. The commanders from both Corps Signal Brigades jointly reconciled conceptual and operational differences so that equipment and personnel could be distributed throughout the proposed organizations in a like manner, i.e., the TOE's should be the same for both brigades. The USAREUR Force Structure arena was briefed on the necessity of boarding the TOE's during the current Management of Change (MOC) window (Jul-Sep 85) to meet the FY 87 force structure lockout date. They are fully supportive of this effort.

CENTAG

C-E STAFF

COL Neary	ACofS Communications - Electronics

97th SIGNAL BATTALION

LTC Manning	Commander
MAJ Lindauer	Executive Officer

USAREUR

DCSRM

BG Price	DCSRM
COL Kuppich	Manpower & Force Analysis Division
LTC Nowlin	Manpower & Force Analysis Division
MSG Potratz	Manpower & Force Analysis Division
SFC Brown	Manpower & Force Analysis Division

DCSOPS

COL Lane	Force Structure Division
LTC Peterson	Force Structure Division Force Modernization Branch
MAJ Jones	Force Structure Division Force Modernization Branch

DCSIM

COL Vydra	ADCSIM
LTC Marquitz	Plans & Architecture Division
CPT Dewitt	SRC Manager
CW4 Portillo	COMSEC
CW4 Boardman	COMSEC

DCSI

CW4 McGregor	COMSEC

VII CORPS

HQ

COL Robinson	DCS

CORPS ARTILLERY

COL Reed	Deputy Commander

CORPS C-E

LTC McCrae	Deputy Corps C-E Officer
MAJ Thrash	Plans/Force Modernization

93RD SIGNAL BRIGADE

COL Vannes	Commander
LTC Essig	Deputy Commander
LTC Shiley	S-4
MAJ Everett	RMO
MAJ Tucker	S-3

CPT Key	S-1
LTC Bryant	Battalion Commander, 34th Signal Bn
LTC Guerra	Battalion Commander, 51st Signal Bn
LTC Josephson	Battalion Commander, 26th Signal Bn

V CORPS

CORPS C-E

MAJ(P) Olsen	Assistant Corps CE Officer
MAJ Shively	Operations & Plans Officer

22ND SIGNAL BRIGADE

COL Conte	Commander
LTC Hawley	Deputy Commander
CPT Biersack	S-1
MAJ Lee	S-3
LTC Schaffer	S-4
MAJ Buono	MSE Project Officer
LTC Thereau	Commander, 17th Signal Battalion
LTC Bieler	Commander, 32nd Signal Battalion
LTC Wright	Commander, 440th Signal Battalion

5TH SIGNAL COMMAND (USAISC)

BG Childs	Commander
COL Cordonier	Deputy Commander
COL Wynn	Chief of Staff

APPENDIX 1

COORDINATION (CONUS)

DEPARTMENT OF ARMY

DCSOPS

COL Parker	Dir, FAA - Coordination Div
LTC Chescavage	DAMO - FDF
LTC Forrester	DAMO - FDR

TRADOC

C4

COL Killingstad	Director
LTC Gilliam	Force Modernization

ORGANIZATION DOCUMENTS DIRECTORATE

COL Wollenberg	Director
CPT Holmes	Force Development

III CORPS

CORPS C-E

MAJ Smith	Force Modernization

3RD SIGNAL BRIGADE

COL Bombel	Commander
LTC Otto	Deputy Commander
LTC Wright	Commander, 16th Signal Battalion
LTC Ingram	Commander, 54th Signal Battalion
LTC Coviello	Commander, 57th Signal Battalion
MAJ Stein	Executive Officer, 57th Sig Bn
MAJ Francis	S-3, 57th Signal Battalion

1ST CAV DIV

LTC Ackerman	Commander, 13th Signal Battalion
MAJ Adinaro	Executive Officer, 13th Sig Bn

ANNEX L

DISTRIBUTION

ANNEX L: Distribution

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US Army Combined Arms Center ATTN: ATZL-CAF Fort Leavenworth, KS 66027	1
US Army Combined Arms Center ATTN: ATZL-CAD Fort Leavenworth, KS 66027	1
HQ, TRADOC ATTN: ATCD-O Fort Monroe, VA 23651-5000	1
HQ, TRADOC ATTN: ATCD-OT Fort Monroe, VA 23651-5000	1
HQ, TRADOC ATTN: ATCD-CA Fort Monroe, VA 23651-5000	2

Commander, US Army Signal Center & Fort Gordon 1
ATTN: ATZH-AC
Fort Gordon, GA 30905

Commander, US Army Signal Center & Fort Gordon 1
ATTN: ATZH-DAC
Fort Gordon, GA 30905

Commander, US Army Signal Center & Fort Gordon 3
ATZH-CD
Fort Gordon, GA 30905

HQ, FORSCOM 2
ATTN: AFCE
Fort McPherson, GA 30330

HQ, CENTAG 1
ATTN: ACofS Communications-Electronics
APO NY 09102

HQ, USAREUR 2
ATTN: AEAGF-A (LTC Nowlin)
APO NY 09102

HQ, USAREUR 2
ATTN: DCSIM (COL Vydra)
APOP NY 09102

HQ, USAREUR 2
ATTN: AEAGC-FMD (LTC Peterson)
APO NY 09102

Commander 1
5th Signal Command
APO NY 09056

Commander 3
3rd Signal Brigade (Corps)
Fort Hood, TX 76544

Commander 3
22nd Signal Brigade (Corps)
APO NY 09757

Commander 1
35th Signal Brigade (Corps)
Fort Bragg, NC 28307

Commander 3
93rd Signal Brigade (Corps)
APO NY 09154